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LIAISON SERVICES ON STATE/MUNICIPAL REGULATIONS FOR MOBILE SOURCES

FINAL REPORT
AFLRL No. 78

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by

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under contract to

U. S. Army Mobility Equipment Research & Development Command
Laboratory 2000
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June 1976

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report briefly describes the steps and functions incident to generation of a recently- issued USATACOM field document, <i>State Regulations Summary, Mobile Ground Sources: Emissions-Maintenance-Inspection</i> , which was prepared under the subject contract. Format, content, and intended functional use of the document are described; key excerpt material is included		

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FOREWORD

The work reported herein was conducted at the U.S. Army Fuels and Lubricants Research Laboratory (USAFRLRL) located at Southwest Research Institute, San Antonio, Texas under Contract DAAG53-75-C-0148, during the time period July 1975 through June 1976. The contract monitor was Mr. F. W. Schaeckel, USAMERADCOM, DRXFB-GL, Ft. Belvoir, Virginia. Funding for this program was furnished by USATARCOM and transferred to USAMERADCOM for administrative simplicity. Technical guidance was provided by Mr. Louis F. Bernhardt, USATARCOM, DRSTA-MST, Warren, Michigan.

I. INTRODUCTION

It is DoD policy that military vehicles conform to the maximum possible extent with air pollution regulations prescribed within each state. The Clean Air Act of 1970, followed by Executive Order 11752 in 1971 (Federal agencies to exhibit leadership in environmental programs), clearly indicates that the Army's performance and cooperation must be exemplary in such matters. Conformance with all state and metropolitan statutes cannot be possible without exact knowledge of these requirements on a constantly updated basis. Unfortunately, these regulations are not presently uniform, nor do they seem likely to become so. The United States will, for the next several years, continue to be in a process of equilibration between the somewhat idealistic requirements of proposed air quality standards and the more pragmatic demands of energy conservation.

The U.S. Army Tank Automotive Material Readiness Command, having primary responsibility for development and maintenance of the Army's roadable vehicle fleet, foresaw the need for a technical liaison function which would provide current information on state and key municipal maintenance programs and emissions regulations. The U.S. Army Fuels and Lubricants Research Laboratory was tasked with devising a means to provide this service to USATARCOM headquarters staff and field personnel. USAFLRL responded with a program plan intended to:

- (1) Establish contact with cognizant individuals in each state and major municipality.
- (2) Coordinate with EPA personnel having similar state/Federal assignments.
- (3) Define and interpret potential obstacles to total Army mobility arising from state or municipal mobile sources emissions regulations.
- (4) Provide continuously updated status advisory information to USATARCOM via computer-stored intelligence.

The basic medium for control of such functions was proposed to be a loose-leaf handbook of highly controlled distribution whose format and content would lend itself to (a) easy interpretation by technical field personnel, (b) rapid and direct updating as would be mandatory in such a rapidly changing area, and (c) efficient communication between headquarters and field USATARCOM personnel.

The culmination of this one-year effort is the *USATACOM State Regulations Summary, Mobile Ground Sources: Emissions—Maintenance—Inspection*. This document has been distributed to some fifty key Army agencies and individuals and—in actuality—comprises the final "product" for this program. It is the purpose of this report to merely describe the *nature* of the document as well as to delineate the actions and functions incident to its publication.

II. TECHNICAL PROGRAM

As mentioned previously, the *USATACOM State Regulations Summary, Mobile Ground Sources: Emissions–Maintenance–Inspection* (see Figure 1) represents the end item for this

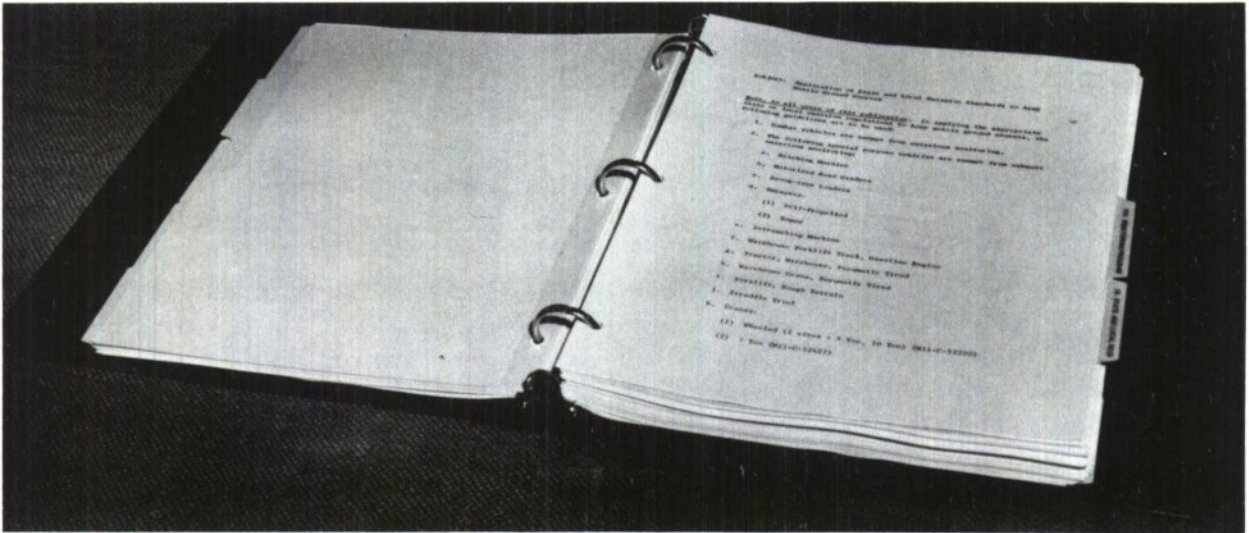


FIGURE 1. USATACOM STATE REGULATIONS SUMMARY, MOBILE GROUND SOURCES: EMISSIONS–MAINTENANCE–INSPECTION

program. This document summarizes all emissions, noise, and inspection and maintenance (I&M) programs presently in existence in this country. In addition to physical publication and distribution of the document, all data are stored in a computer program easily accessible by Headquarters, USATARCOM personnel. There are thus two means for ensuring currency of information by Army staff:

- (1) Direct computer access/printout of material kept current at AFLRL.
- (2) Mailing of supplemental or replacement items to recipients by AFLRL.

In order to generate this document and organize such a function, several sequentially related but separate tasks were required. These are discussed below.

A. Field Liaison

Initial efforts to collect state and local regulatory data entailed exhaustive literature review, extraction, interpretation and condensation from source documents which were without exception the individual state's actual statute and therefore written in legalistic terminology requiring considerable simplification. Since such simplification could easily have been accompanied by misinterpretation and consequent distortion of any given law's *intent*, coordination was accomplished with key agencies and personnel within each state and/or municipality. A list of persons contacted is given as Appendix A. These individuals were first contacted by telephone, advised of the intended intra-Army use of this information, and then mailed copies of AFLRL interpretation of their regulations in a format designed for final distribution to USATARCOM. Cooperation by these state personnel was excellent; comments and suggested revisions, etc., were received and integrated in a matter of only a few weeks.

B. Data Organization

Individual data for each state or key municipal area was organized according to the format/content scheme shown in Figure 2. Specific examples of states having more active vehicle emissions/noise programs are given in Appendix C. *Since these data are continually reviewed for currency, no statement or item in Appendix C should be presumed current; they are merely published here as illustrative material.*

In addition to state and local regulations summaries, Federal vehicle exhaust emissions and noise regulations were included. These are given in Figures 3 and 4 and, again, will not necessarily be current at the time of this report's distribution.

Certain states have active, enforceable vehicle inspection and maintenance programs. These, too, were summarized, coordinated, and included in the document. This summary is presented in Figure 5.

To assist document recipients in the field in interpreting such regulations with respect to their individual operations, USATARCOM generated guidelines for application of local statutes to Army mobile ground sources. These are given in Figure 6, and state regulations are summarized in Figure 7.

The above brief descriptions and illustrations are intended to provide the reader of this final report with an idea of the material contained in the summary document. Since distribution is necessarily limited, specific questions regarding the document may be directed to USATARCOM DRSTA-MST; United States Army Tank Automotive Material Readiness Command, Warren, Michigan 48090.

C. Communications

Whereas the summary document will provide the basis for communications within USATARCOM regarding vehicle exhaust and noise regulations, it is intended only as a means to supplement the existing communications network between headquarters and field technical personnel. To ensure currency and value of such data, an information flow such as depicted in the (highly idealized) schematic in Figure 8 must be initiated. In actuality, much of this functional arrangement is already in action—partly from the liaison activities incident to compiling the summary document itself, and partly from communications flow existing for quite some years between field and headquarters personnel. Since the summary document has only just been issued to the field, it will require some time for familiarization and feedback information from the field to commence which should result in modification of format or content to increase the document's functional value.

THIS PROGRAM LISTS ENGINE EXHAUST EMISSIONS REGULATIONS AND MAINTENANCE REQUIREMENTS FOR STATE AND MAJOR METROPOLITAN AREAS. FORMAT AND CONTENT ARE DESCRIBED BELOW.

1. AGENCIES
 - A. EPA REGION: THE REGION WITHIN WHOSE JURISDICTION THE STATE FALLS. THERE ARE 10 SUCH REGIONS WITH 4 TO 8 STATES OR TERRITORIES IN EACH.
REGIONAL ADMINISTRATOR: THIS MAN AND HIS SUBORDINATES CAN INTERPRET FEDERAL STATUTES AND POLICIES WITHIN THIS REGION.
 - B. STATE: THE AUTHORITATIVE AGENCY FOR THE STATE. PERSONNEL WITHIN THIS AGENCY CAN INTERPRET STATE STATUTES AND POLICIES
 - C. COUNTY OR DISTRICT: LOCAL AUTHORITIES WHERE APPROPRIATE-- USUALLY LARGE METROPOLITAN AREAS.
2. SOURCE: THE DOCUMENT FOR THE STATE FROM WHICH SUMMARIZED DATA IN ITEMS 3-6 (BELOW) HAVE BEEN EXCERPTED.
3. VISIBLE EMISSIONS: STATE REGULATIONS ON VISIBLE EMISSIONS FROM GASOLINE AND DIESEL POWERED VEHICLES. THESE ARE MOST OFTEN ESTIMATED BY A MOBILE POLICE UNIT IN ROADSIDE SPOT CHECKS COMPARABLE TO RADAR SPEED CHECKS.
4. EMISSION INSPECTION STANDARDS: STATE MAXIMUM ALLOWABLE GASEOUS EMISSIONS STANDARDS. ONLY A FEW STATES PRESENTLY HAVE THE PERMANENT FACILITIES NECESSARY TO MEASURE SUCH EMISSIONS. TEST PROCEDURES FOR THESE MEASUREMENTS VARY WIDELY FROM STATE TO STATE.
5. MAINTENANCE: WHAT THE STATE REQUIRES OF EACH INDIVIDUAL VEHICLE. GENERALLY, THIS WILL COVER WHAT CAN AND CANNOT BE REMOVED, MODIFIED, OR REPLACED WITH REGARD TO ENGINE EMISSIONS CONTROL DEVICES.
6. EXEMPTIONS: VEHICLES AND SEMI-MOBILE POWER PLANTS NOT SUBJECT TO STATE LAW. THESE VARY WIDELY FROM STATE TO STATE. THERE ARE ALSO SPECIFIC CIRCUMSTANCES WHEREIN VEHICLES ARE EXCLUDED TEMPORARILY FROM A STATE'S LAWS.
7. VEHICLE NOISE: SOME STATES HAVE REGULATIONS AS TO MAXIMUM ALLOWABLE NOISE; OTHERS REQUIRE OR PROHIBIT CERTAIN ITEMS OF EQUIPMENT (MUFFLERS, SIRENS, CUTOUTS, ETC). AGAIN REGULATIONS VARY WIDELY FROM STATE - TO - STATE
8. REMARKS: FUTURE ACTIONS ANTICIPATED FOR THIS STATE WHICH MAY OR MAY NOT BE ENACTED INTO LAW.
9. DATE OF LAST REVISION: THIS DATE CAN BE CHECKED AGAINST ITEMS 1-8 TO IDENTIFY THE MOST RECENT CHANGES.

NOTE: ITEMS LEFT BLANK MEANS NONE

FIGURE 2. FORMAT AND CONTENTS OF USATACOM STATE REGULATIONS SUMMARY, MOBILE GROUND SOURCES: EMISSIONS-MAINTENANCE-INSPECTION

FEDERAL STANDARDS FOR NEW VEHICLE EMISSIONS

LIGHT DUTY GASOLINE & DIESEL VEHICLES

EMISSIONS	1975-1976	1977	1978
HC, G/MILE	1.5	1.5	0.41
CO, G/MILE	15.0	15.0	3.4
NOX, G/MILE	3.1	2.0	0.4
EVAP., G/TEST	2.0	2.0	2.0

LIGHT DUTY GASOLINE & DIESEL TRUCKS

EMISSIONS	GASOLINE AND DIESEL 1976-1977
HC, G/MILE	2.0
CO, G/MILE	20.0
NOX, G/MILE	3.1
EVAP., G/TEST	2.0

HEAVY DUTY GASOLINE & DIESEL ENGINES

EMISSION	1974 AND BEYOND
CO, G/BHP-HR	40
HC-NOX, G/BHP-HR	16
OPACITY (DIESEL ONLY), %	
LUG	15
ACCELERATION	20
PEAK	50

NOTE: LIGHT DUTY IS 6000 LBS OR LESS.
 HEAVY DUTY IS HEAVIER THAN 6000 LBS.
 ANTICIPATE A MEDIUM DUTY VEHICLE CATEGORY, 6000 - 10,000
 LB G.V.W. FOR 1978 - 1979.
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FIGURE 3. FEDERAL STANDARDS FOR NEW VEHICLE EMISSIONS

FEDERAL NOISE REGULATIONS

AT THE PRESENT TIME, THERE ARE NO FEDERAL VEHICLE NOISE REGULATIONS WHICH APPLY TO THE UNITED STATES ARMY. THE NOISE CONTROL ACT OF 1972 AUTHORIZES ESTABLISHMENT OF FEDERAL NOISE STANDARDS AND DIRECTS ALL FEDERAL AGENCIES TO CARRY OUT PROGRAMS TO PERMIT COMPLIANCE. IT IS ANTICIPATED THAT - IF FEDERAL NOISE REGULATIONS ARE EVER MADE LAW - THEY WILL BE SIMILAR IN NATURE TO THE EPA INTERSTATE COMMERCE CARRIER STANDARDS FOR HIGHWAYS SUMMARIZED BELOW:

MAXIMUM PERMISSIBLE SOUND LEVEL READINGS, DB(A)

HIGHWAY OPERATIONS TEST

		SOFT SITE		HARD SITE	
MIKE-TO-TARGET		35 MI/HR	ABOVE	35 MI/HR	ABOVE
MIN.FT	MAX.FT	OR LESS	35 MI/HR	OR LESS	35 MI/HR
35	39	89	93	91	95
39	43	88	92	90	94
43	48	87	91	89	93
48	58	86	90	88	92
58	70	85	89	87	91
70	83	84	88	86	90

STATIONARY TESTS

		SOFT SITE	HARD SITE
35	39	89	91
39	43	88	90
43	48	87	89
48	58	86	88
58	70	85	87
70	83	84	86

1-THE SPEEDS SHOWN REFER TO MEASUREMENTS TAKEN AT SITES HAVING SPEED LIMITS AS INDICATED. THESE SPEED LIMITS DO NOT NECESSARILY HAVE TO BE POSTED

2-THIS TABLE IS BASED ON MOTOR CARRIER NOISE EMISSION REQUIREMENTS SPECIFIED IN 40 CFR 202.20 AND 40 CFR 202.21

FIGURE 4. FEDERAL NOISE REGULATIONS

IN ADDITION, THE EPA STANDARDS FOR NEW MEDIUM AND NEW HEAVY DUTY TRUCKS (OVER 10,000 LB GVWR--EITHER CLASS) ARE:

EFFECTIVE DATE	LEVEL, DB(A)
1 JAN 78	83
1 JAN 82	80
1 JAN 85	(RESERVED)

REFERENCE: 1. TITLE 40, CODE OF FEDERAL REGULATIONS CHAPTER I, PART 202, 39 FR 38208, OCTOBER 29, 1974
2. PL 92-574; ENACTED BY CONGRESS OCTOBER 18, 1972; SIGNED BY THE PRESIDENT OCTOBER 27, 1972
3. TITLE 49, CODE OF FEDERAL REGULATIONS CHAPTER II, PART 325, 40 FR 42437, SEPTEMBER 12, 1975

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FIGURE 4. FEDERAL NOISE REGULATIONS (Cont'd)

STATE INSPECTION PROGRAMS

THE DATA BELOW SUMMARIZES ESSENTIALS OF ALL STATE, COUNTY, OR MUNICIPAL VEHICLE EMISSIONS INSPECTION PROGRAMS WHICH WERE ACTIVE AS OF 1 JANUARY 1976. FOR DETAILS OF STANDARDS, ETC., REFER TO INDIVIDUAL STATE. THIS PAGE WILL BE REVISED AS OTHER STATES INITIATE INSPECTION PROGRAMS OR AS EXISTING PROGRAMS CHANGE.

STATE	INITIATION DATE	INSPECTION CRITERIA	INSPECTION FREQUENCY	PENALTIES**
ARIZONA (MARICOPA, PIMA CO.)	1 JAN 76	STATE REGISTERED	ANNUAL, OR SALE BY LIC. DEALER	REGISTRATION DENIAL (1 JAN 77)
CALIFORNIA (RIVERSIDE COUNTY)	15 AUG 75	COUNTY RESIDENT	CHANGE OF OWNER- SHIP (7/76) OR NEW CAR SALE (7/77)	CAN'T SELL OR CHANGE OWNER- SHIP UNTIL COMPLY
ILLINOIS (CHICAGO)	1 JUN 73	CITY RESIDENT (VOLUNTARY)	ANNUAL	NONE
NEVADA	1 FEB 74	STATE REGISTERED	UPON CHANGE OF OWNERSHIP	CAN'T CHANGE OWNERSHIP UNTIL COMPLY
NEW JERSEY	1 JUN 71	STATE REGISTERED	DIESEL: QUARTERLY GASOLINE: ANNUAL	DIESEL: REGIS- TRATION DENIAL GASOLINE: SUM- MONS (VISIBLE); REGISTRATION DENIAL (FAIL INSPECTION)
NEW YORK	1 JAN 75	REGISTER* OPERATION*	ANNUAL AND RANDOM	\$2500 FIRST OFFENSE PLUS \$500/DAY THERE- AFTER**
OHIO (HAMILTON COUNTY)	1 JAN 75	COUNTY RESIDENT	ANNUAL	REGISTRATION DENIAL
OREGON (PORTLAND AREA)	1 JUL 75	STATE REGISTERED	ANNUAL	REGISTRATION DENIAL

** ALL STATES HAVING PENALTIES ALLOW THIRTY DAY GRACE PERIOD

* VEHICLE REGISTERED IN NEW YORK CITY, OR NASSAU, SUFFOLK, ROCKLAND, OR WESTCHESTER COUNTIES (NEW YORK METROPOLITAN AREA)

* VEHICLE OPERATED ON NEW YORK CITY STREETS OR ROADS

** FINES ASSESSED ONLY UPON VIOLATION AFTER HEARING AND CEASE AND DESIST ORDER.

FIGURE 5. STATE INSPECTION PROGRAMS

Subject: Application of State and Local Emission Standards to Army
Mobile Ground Sources

Note, to all users of this publication. In applying the appropriate state or local emission regulations to Army mobile ground sources, the following guidelines are to be used:

1. Combat vehicles are exempt from emissions monitoring.
2. The following special purpose vehicles are exempt from exhaust emissions monitoring:
 - a. Ditching Machine
 - b. Motorized Road Graders
 - c. Scoop-type Loaders
 - d. Sweepers:
 - (1) Self-Propelled
 - (2) Towed
 - e. Intrenching Machine
 - f. Warehouse Forklift Truck, Gasoline Engine
 - g. Tractor, Warehouse, Pneumatic Tired
 - h. Warehouse Crane, Pneumatic Tired
 - i. Forklift, Rough Terrain
 - j. Straddle Truck
 - k. Cranes:
 - (1) Wheeled (2 sizes - 5 Ton, 10 Ton) (Mil-C-52220)
 - (2) 7 Ton (Mil-C-52427)

FIGURE 6. ARMY GUIDELINES FOR VEHICLES MAINTENANCE

- (3) 6 Ton (2 classes) (Mil-C-52581)
- (4) 20 Ton (Mil-C-52341)
- (5) 25 Ton (Mil-C-28614)
- l. Mobile Floating Assault Bridge/Ferry
- m. Trucks, Dump (7 sizes) (Mil-T-3044)
- n. Tractor, Wheeled
 - (1) Agriculture (26 sizes)
 - (2) Industrial
 - (a) 16 sizes (KKK-T-642)
 - (b) (2 classes) (11 sizes) (Mil-T-3229)
 - (c) 4-wheeled drive (Mil-T-52103)
 - (d) With scrapper controls (Mil-T-52272)
- o. Truck, Platform, Utility (1/2 Ton, 4 X 4)
- p. Car, Armored (XM706)
- q. Vehicle, Armored, Reconnaissance, Scout, Wheeled
- r. Gama Goat, M561, 1-1/4 Ton Truck
- s. Goer Vehicles
 - (1) M520 Cargo
 - (2) M553 Wrecker
 - (3) M559 Tanker
- t. Truck, Tractor, M746

FIGURE 6. ARMY GUIDELINES FOR VEHICLE MAINTENANCE (Cont'd)

3. All other gasoline and diesel powered Army vehicles should comply with the state or local standard indicated for comparable year, make and gross vehicle weight, commercial vehicles.

(Until notified otherwise, readings of exhaust emissions shall be taken with a nondispersive infrared exhaust emissions analyzer. Readings shall be taken as specified by the state or local law applicable. If dynamometer readings or no particular RPM readings are specified, readings shall be taken at normal operating temperature running at the manufacturer's recommended idle and at $2,250 \text{ RPM} \pm 250 \text{ RPM}$. The transmission shall be set in neutral. Opacity readings will be taken with a Ringleman or equivalent chart. Inspection frequency will, at a minimum, coincide with that of the state or locality in question.)

4. Authorization to procure emission meters should be obtained from AMMC through TACOM as required by AR 740-43. The TB's* provided for monitoring of exhaust and noise emissions, and the local civilian regulation and emission monitoring program should be cited as justification.

*Drafts of the exhaust and noise TB's are currently being formulated. Until their distribution, cite the local regulation and emission monitoring program as justification. (See Section VIII)

5. Only those states or localities of the "state checklist" marked with an X in the "program active column" have regulations which would justify emission monitoring equipment. Any laws within an area which necessitate emission monitoring equipment, and are not included in this publication should be brought to the attention of DRSTA-MST, USATACOM, Warren, Michigan 48090.

FIGURE 6. ARMY GUIDELINES FOR VEHICLE MAINTENANCE (Cont'd)

STATE INSPECTION AND REGULATIONS SUMMARY

E.P.A. REGIONS	STATES OR TERRITORIES	SNOKE REGS.			INSPECTIONS			FUTURE INSPECTION PROGRAMS	MAINTENANCE REGS.	PENALTIES	NOISE REGS.	ACTIVE COUNTY OR MUNICIPAL PROGRAMS
		G	D	O	G	D	O					
IV	Alabama	X	X						X		X	
X	Alaska	X	X	X								
IX	American Samoa											
IX	Arizona	X	X		X				X	X	X	X
VI	Arkansas	X	X						X		X	
IX	California	X	X		X	X			X		X	X
V	Chicago	X	X		X				X	X	X	X
V	Cincinnati	X			X				X			X
VIII	Colorado	X	X					X			X	
I	Connecticut	X	X						X	X	X	
III	Delaware											
III	District of Columbia	X	X					X				
IV	Florida	X	X							X	X	
IV	Georgia	X	X						X			*
IX	Guam											
IX	Hawaii	X	X					X	X	X	X	
X	Idaho	X	X						X		X	
V	Illinois	X	X					X	X			X
V	Indiana								X		X	
VII	Iowa	X	X							X	X	
VII	Kansas									X	X	
VII	Kansas City	X	X									X
IV	Kentucky									X	X	
VI	Louisiana							X				
I	Maine										X	
III	Maryland	X	X						X	X	X	
I	Massachusetts	X	X	X					X		X	
V	Michigan											
V	Minnesota	X	X						X		X	
IV	Mississippi											
VII	Missouri								X		X	X
VIII	Montana								X	X	X	
VII	Nebraska		X						X	X	X	
IX	Nevada	X	X		X				X		X	
I	New Hampshire	X	X						X		X	
II	New Jersey	X	X		X	X			X		X	
VI	New Mexico		X									
II	New York	X	X		X				X	X		
IV	North Carolina	X	X						X			
VIII	North Dakota	X	X						X			
V	Ohio				X				X			X
VI	Oklahoma								X			
X	Oregon	X	X		X	X			X	X	X	X
III	Pennsylvania								X	X	X	
II	Puerto Rico	X	X						X			
I	Rhode Island											
IV	South Carolina											
VIII	South Dakota	X	X						X			
IV	Tennessee											
VI	Texas	X	X					X	X			
VIII	Utah	X	X						X			
I	Vermont	X	X						X		X	
III	Virginia	X	X	X				X	X	**	**	X
II	Virgin Islands											
X	Washington	X	X		X				X	X	X	
III	West Virginia								X		X	
V	Wisconsin	X	X						X	X	X	
VIII	Wyoming								X			

G = Gasoline; D = Diesel; O = Other

*Georgia prohibits county or municipal emissions regulations.

**Virginia permits *motorcycle* noise regulations by county, city, or town.

FIGURE 7. STATE INSPECTION AND REGULATIONS SUMMARY CHECKLIST

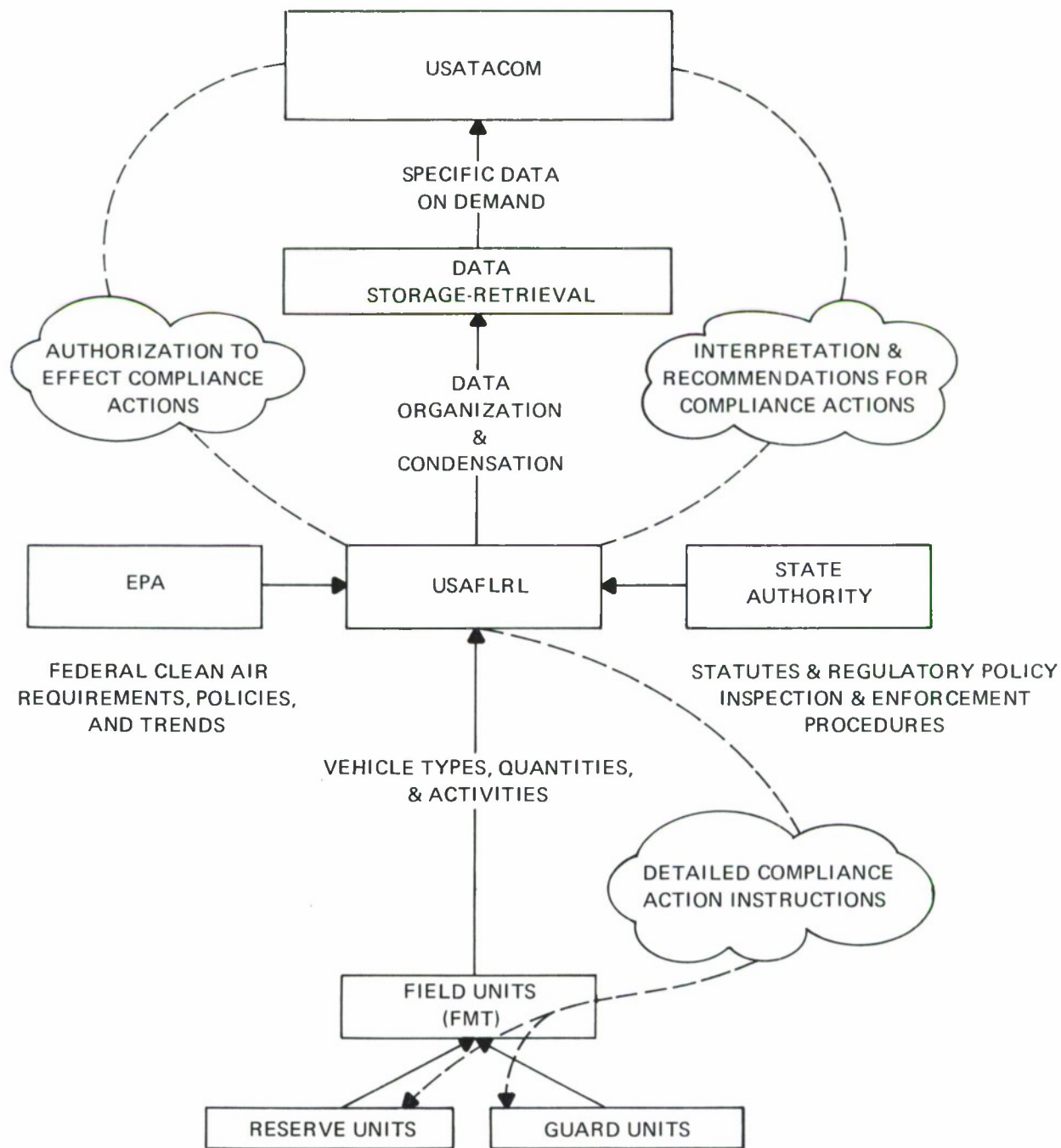


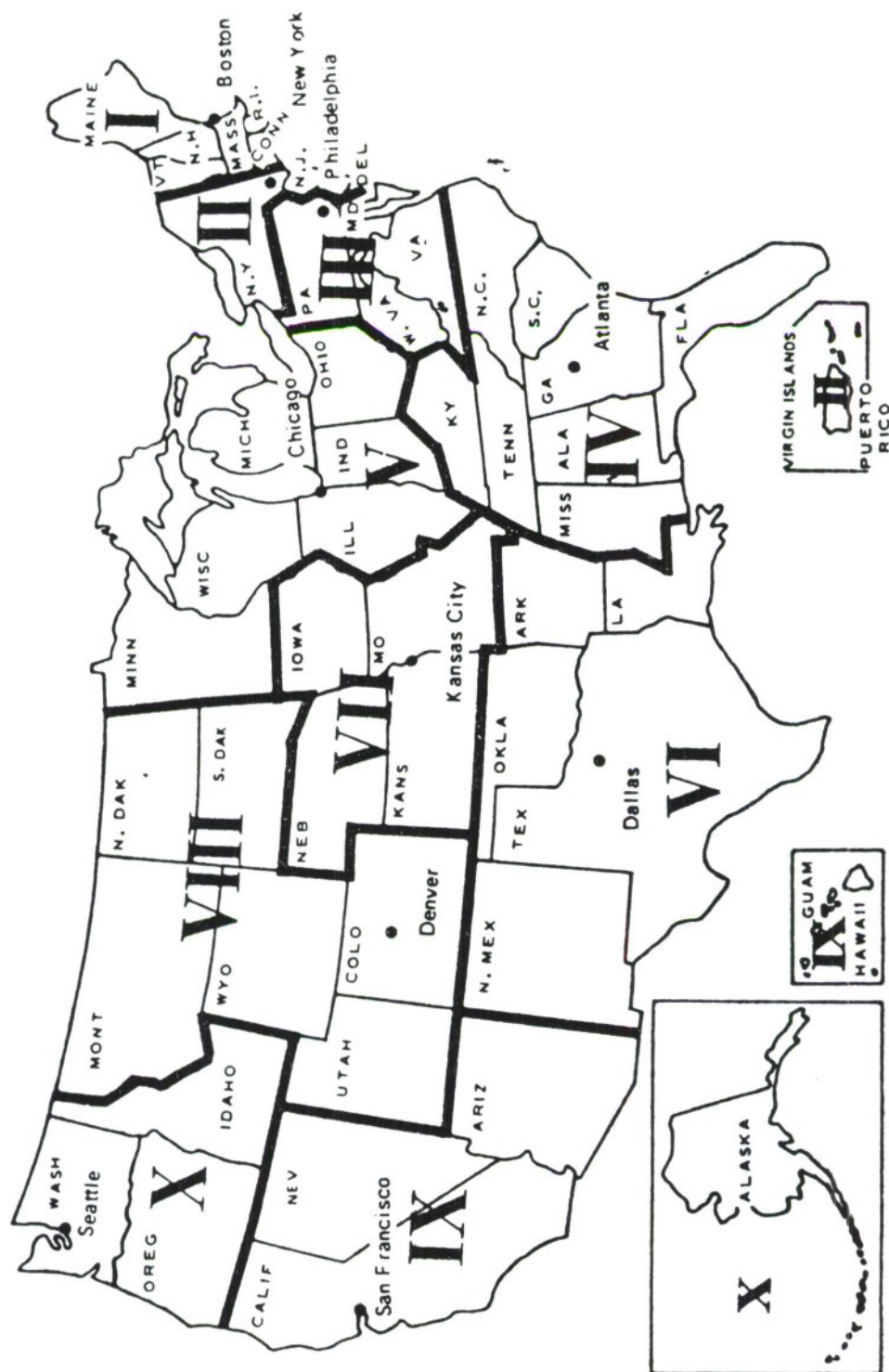
FIGURE 8. IDEALIZED TOTAL COMMUNICATIONS

III. RECOMMENDATIONS

This summary report has been generated in order to (a) familiarize the reader with material contained in the recently issued summary document, and (b) comply with contractual requirements specified in DAAG53-75-C-0148, administered by USAMERADCOM. The most obvious and important recommendation is that steps be taken to assure continuity and currency of the summary document during 1976-1978, since these will be formative years for state I&M policies.

APPENDIX A

KEY STATE AGENCIES AND PERSONNEL



ENVIRONMENTAL PROTECTION AGENCY REGIONS

EPA REGION I

<i>Connecticut:</i>	Mr. Bob Waz Department of Environmental Protection Air Compliance Unit 165 Capitol Avenue Hartford, CT 06106	(203) 566-2110
<i>Maine:</i>	Mr. Frederick C. Pitman Air Quality Control Program Department of Environmental Protection State House Augusta, ME 04333	(207) 289-2437
<i>Massachusetts:</i>	Mr. John Desmond Metropolitan Boston Air Pollution Control District Room 320 600 Washington Street Boston, MA 02111	(617) 727-2658
<i>New Hampshire:</i>	Mr. Forrest Bumford Air Pollution Control Agency State Laboratory Building Hazen Drive Concord, NH 03301	(603) 271-2281
<i>Rhode Island:</i>	Mr. Barry W. Muller Department of Health Division of Air Pollution Control 204 Health Building Davis Street Providence, RI 02908	(401) 277-2808
<i>Vermont:</i>	Mr. Richard A. Valentinetti P.O. Box 489 Montpelier, VT 05602	(802) 828-3395

EPA REGION II

<i>New Jersey:</i>	Mr. John Elston New Jersey Department of Environmental Protection Division of Environmental Quality John Fitch Plaza P.O. Box 2807 Trenton, NJ 08625	(609) 292-6714
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EPA REGION II (Cont'd)

<i>New York:</i>	Mr. John Davis New York State Department of Environmental Conservation Room 130 50 Wolf Road Albany, NY 12233	(518) 457-5153
<i>Puerto Rico:</i>	Mr. Carlos M. Jimenez Barber Executive Director, Environmental Quality Board 1550 Ponce de Leon Avenue Santurce, PR 00910	(809) 725-5140
<i>Virgin Islands:</i>	Mr. Pedrito Francois Director, Division of Environmental Health Department of Health P.O. Box 1442 St. Thomas, VI 00801	(809) 774-3411

EPA REGION III

<i>Delaware:</i>	Mr. Robert R. French Manager, Air Resources Section Division of Environmental Control Tatnall Building Dover, DE 19901	(302) 678-4761
<i>District of Columbia:</i>	Mr. John V. Brink Chief, Bureau of Air and Water Quality Control Department of Environmental Services 614 H Street, N.W., Room LL3 Washington, DC 20001	(202) 629-2568
<i>Maryland:</i>	Mr. George P. Ferreri Director, Bureau of Air Quality and Noise Control 201 West Preston Street Baltimore, MD 21201	(301) 383-2779
<i>Pennsylvania:</i>	Mr. L. D. McKee Room 407 Highway Safety Building Harrisburg, PA 17123	(717) 787-2893

EPA REGION III (Cont'd)

<i>Virginia:</i>	Mr. Robert Mann Division of Operations and Procedures Air Pollution Control Board Room 1106 9th Street Office Building Richmond, VA 23219	(804) 770-7564
<i>West Virginia:</i>	Mr. Robert Weser West Virginia Air Pollution Control Commission 1558 Washington Street East Charleston, WV 25311	(304) 348-3286

EPA REGION IV

<i>Alabama:</i>	Mr. Richard McNider Alabama Air Pollution Control Commission 645 S. McDonough Street Montgomery, AL 36104	(205) 834-6570
<i>Florida:</i>	Mr. Jerry Roberts Department of Environmental Regulation 2562 Executive Center Circle East Tallahassee, FL 32301	(904) 488-1345
<i>Georgia:</i>	Mr. Bob Collom Air Protection Branch 270 Washington Street, S.W. Atlanta, GA 30334	(404) 656-6900
<i>Kentucky:</i>	Mr. William S. Coakley Acting Director, Enforcement and Surveillance Program Division of Air Pollution Capitol Plaza Tower Frankfort, KY 40601	(502) 564-3382
<i>Mississippi:</i>	Mr. W. L. Pruitt Mississippi Air and Water Pollution Control Commission P.O. Box 827 Jackson, MS 39205	(601) 354-6783
<i>North Carolina:</i>	Mr. James A. McColman P.O. Box 27687 Raleigh, NC 27611	(919) 829-4748

EPA REGION IV (Cont'd)

<i>South Carolina:</i>	Mr. William P. Brantley South Carolina Department of Health and Environmental Control 2600 Bull Street Columbia, SC 29201	(803) 758-5496
<i>Tennessee:</i>	Mr. James W. Haynes Division of Air Pollution Control Tennessee Department of Public Health 256 Capitol Hill Building Nashville, TN 37219	(615) 741-3931

EPA REGION V

<i>Illinois:</i>	Mr. Narender Reddy Division of Air Pollution Control Illinois EPA 2200 Churchill Road Springfield, IL 62706	(217) 782-7326
<i>Indiana:</i>	Mr. Warren McPhail Air Pollution Control Commission 1330 West Michigan Street Indianapolis, IN 46206	(317) 633-4273
<i>Michigan:</i>	Mr. Rick Johns Department of Natural Resources Air Pollution Control Division Stevens T Mason Bldg. Lansing, MI 48926	(517) 373-7573
<i>Minnesota:</i>	Mr. Marty Osborn MPCA-DAQ 1935 W. County Road B-2 Roseville, MN 55113	(612) 296-7265
<i>Ohio:</i>	Mr. Harry Judson Ohio EPA 361 East Broad Street Columbus, OH 43216	(614) 466-6116
<i>Wisconsin:</i>	Mr. Thomas Pierce Department of Natural Resources Box 450 Madison, WI 53701	(608) 266-7718

EPA REGION VI

<i>Arkansas:</i>	Mr. Cecil Harrell Engineer, Air Division 8001 National Drive Little Rock, Arkansas 72209	(501) 371-1701
<i>Louisiana:</i>	Mr. James F. Coerver Technical Section Louisiana Air Control Commission P.O. Box 60630 New Orleans, LA 70160	(504) 527-5115
<i>New Mexico:</i>	Mr. Don Tryk Air Quality Division Environmental Improvement Agency P.O. Box 2348 Santa Fe, NM 87503	(505) 827-2813
<i>Oklahoma:</i>	Mr. Scott Thomas Air Quality Service Oklahoma State Department of Health N.E. 10th and Stonewall Streets Oklahoma City, OK 73105	(405) 271-5220
<i>Texas:</i>	Mr. Hank Sievers Planning Section Air Control Board 8520 Shoal Creek Blvd. Austin, TX 78758	(512) 451-5711

EPA REGION VII

<i>Iowa:</i>	Mr. Larry E. Crane Department Director Department of Environmental Quality 3920 Delaware Avenue P.O. Box 3326 Des Moines, IA 50316	(515) 265-8134
<i>Kansas:</i>	Mr. Ray Buerzin Department of Health and Environment Forbes Air Force Base, Bldg. 740 Topeka, KS 66620	(913) 296-3895
<i>Missouri:</i>	Mr. M. T. Marshall Staff Director, Air Quality Program Department of Natural Resources P.O. Box 1368 Jefferson City, MO 65101	(314) 751-3252

EPA REGION VII (Cont'd)

Nebraska: Mr. Dennis Burling
Air Pollution Control
P.O. Box 94653
State House Station
Lincoln, NE 68509 (402) 471-2186

EPA REGION VIII

Colorado: Mr. James R. Taylor
Colorado Department of Health
4210 East 11th Avenue
Denver, CO 80220 (303) 388-6111

Montana: Mr. Dennis Haddon
Department of Health and Environment
Sciences
Cozswell Bldg.
Helena, MT 59601 (406) 449-3454

North Dakota: Mr. Gene Christianson
Director, Division of Environmental
Engineering
State Department of Health
State Capitol
Bismarck, ND 58501 (701) 224-2372

South Dakota: Mr. Bob Pipe
Department of Environmental Protection
Office Bldg. No. 2
Pierre, SD 57501 (605) 224-3351

Utah: Grant Winn, PhD
Director, Bureau of Air Quality
44 Medical Drive
Salt Lake City, Utah 84113 (801) 328-6108

Wyoming: Mr. Gerald Blackwell
Air Quality Supervisor
Department of Environmental Quality
State Office Bldg., West
Cheyenne, WY 82002 (307) 777-7391

EPA REGION IX

American Samoa: Lt. Governor Frank C. Mockler
Environmental Quality Commission
Governor's Office
Pago Pago, American Samoa 96799 633-4116

EPA REGION IX (Cont'd)

<i>Arizona:</i>	Mr. Bill Price 1740 West Adams Phoenix, AZ 85007	(602) 271-5306
<i>California:</i>	Mr. Bill Sessa Air Resources Board 1709 11th Street Sacramento, CA 95814	(916) 322-2990
<i>Guam:</i>	Paul De Falco, Jr. Administrator, Region IX U.S. Environmental Protection Agency 100 California Street San Francisco, CA 94111	(415) 556-2320
<i>Hawaii:</i>	Mr. Paul Aki Pollution Investigation and Enforcement Branch 1250 Punchbowl Street Honolulu, HI 96813	(808) 548-6455
<i>Nevada:</i>	Mr. Bob Smith Department of Human Resources Environmental Protection Capitol Complex 1209 Johnson Street Carson City, Nevada 89710	(702) 885-4750

EPA REGION X

<i>Alaska:</i>	Mr. Thomas Hanna Air Quality Control Supervisor Department of Environmental Conservation Pouch 0 Juneau, AK 99801	(907) 465-2631
<i>Idaho:</i>	Mr. Murray Michael Supv. Air Quality Program Statehouse Boise, ID 83720	(208) 384-2390
<i>Oregon:</i>	Mr. W. P. Jasper Department of Environmental Control Vehicle Inspection Division 1234 S.W. Morrison Portland, Oregon 97205	(503) 229-5696
<i>Washington:</i>	Mr. Peter Hildebrandt Department of Ecology Olympia, WA 98504	(206) 753-2821

APPENDIX B
STATE/LOCAL REGULATIONS EXAMPLES

ARIZONA

1. AGENCIES

A. EPA REGION IX
13AUG75

REGIONAL ADMINISTRATOR:
PAUL DEFALCO, JR.; (415) 556-2320; 100 CALIFORNIA ST.,
SAN FRANCISCO, CA. 94111.
13AUG75

B. STATE

BUREAU OF AIR POLLUTION CONTROL, CHIEF: EDMUND C. GARTHE;
(602) 271-5306; 1740 WEST ADAMS, PHOENIX, AZ. 85007.
13AUG75

C. COUNTY OR DISTRICT

2. SOURCE

ARIZONA RULES AND REGULATIONS FOR POLLUTION CONTROL, REGULATION
7-1-9, AND AIR POLLUTION CONTROL LAW, TITLE 36, CHAPTER 14.
13AUG75

3. VISIBLE EMISSIONS

A. GASOLINE POWERED

VISIBLE, 10-SECOND MAXIMUM.
13AUG75

B. DIESEL POWERED

NO. 2 RINGELMANN, 10-SECOND MAXIMUM
13AUG75

C. OTHER

4. EMISSION INSPECTION STANDARDS

A. GASOLINE POWERED

MODEL YEAR	ENGINE DISPLACEMENT	CO, %	HC, PPM
1968	OVER 140 CID	3.0	300
AND LATER	140 CID & LESS	4.0	400
1963	OVER 140 CID	4.5	500
THRU 1967	140 CID & LESS	5.0	600
1962	OVER 140 CID	5.0	600
AND OLDER	140 CID & LESS	6.0	800

ARIZONA "VEHICLE-IN-USE" INSPECTION TEST: AVERAGE HC AND CO TAKEN
AT 50 MPH, 30 MPH, AND IDLE; ENGINE WARM (CHASSIS DYNAMOMETER
USED); NEGATIVE CRANKCASE PRESSURE CHECK AT IDLE (FOR VEHICLES
HAVING PCV).

ARIZONA--2

PENALTIES: LICENSE PLATES WITHHELD UNTIL VEHICLE PASSES
INSPECTION, EFFECTIVE JAN. 1, 1977

13AUG75

B. DIESEL POWERED

C. OTHER

5. MAINTENANCE

THIRTY DAY GRACE PERIOD FOR CORRECTION OF DEFECTS OBSERVED DURING
INSPECTION.

13AUG75

6. EXEMPTIONS

A. COLD ENGINE START-UP EMISSIONS.

B. OFF-HIGHWAY DIESEL-POWERED VEHICLES

C. FLEET OPERATORS IF PERFORMING OWN INSPECTIONS (IDLE ONLY)

D. VEHICLES OVER 15 YEARS OLD

13AUG75

7. VEHICLE NOISE

A. MUFFLERS IN GOOD WORKING CONDITION AT ALL TIMES

B. NO CUTOUTS, BYPASSES, ETC.

C. BOATS: 86 DB/50 FT; NO EXCESSIVE OR UNUSUAL NOISES

D. EXCEPTIONS: SANCTIONED COMPETITIONS OR TIME TRIALS

13AUG75

8. REMARKS

MANDATORY INSPECTION JAN. 1, 1976; MANDATORY COMPLIANCE
JAN. 1, 1977 (APPLIES TO COUNTIES WITH MORE THAN 350,000 POPULATION)
THIS INCLUDES ONLY MARICOPA-PHOENIX AND PIMA-TUCSON COUNTIES

13AUG75

9. DATE OF LAST REVISION:

CALIFORNIA

1. AGENCIES

A. EPA REGION IX
2SEPT75

REGIONAL ADMINISTRATOR:
PAUL DEFALCO, JR.; (415) 556-2320; 100 CALIFORNIA ST.,
SAN FRANCISCO, CA 94111
2SEPT75

B. STATE

CALIFORNIA AIR RESOURCES BOARD, CHAIRMAN: THOMAS QUINN;
(916) 322-5840; 1709 11TH ST., SACRAMENTO, CA 95814
2SEPT75

C. COUNTY OR DISTRICT

2. SOURCE

CALIFORNIA ADMINISTRATIVE CODE, TITLE 13, MOTOR VEHICLES,
CHAPTER 3: AUTOMOTIVE EXHAUST EMISSION AND DIESEL EMISSION
STANDARDS.
2SEPT75

3. VISIBLE EMISSIONS

A. GASOLINE POWERED

1. JAN. 1, 1971 OR PRIOR VEHICLES, LESS THAN 4000 FT: NO. 2
RINGELMANN OR 40% OPACITY, 10-SECONDS MAXIMUM
 2. JAN. 1, 1971 OR AFTER VEHICLES, LESS THAN 4000 FT: NO. 1
RINGELMANN OR 20% OPACITY, 10-SECONDS MAXIMUM
- 2SEPT75

B. DIESEL POWERED

1. JAN. 1, 1971 OR PRIOR VEHICLES, LESS THAN 4000 FT: NO. 2
RINGELMANN OR 40% OPACITY, 10-SECONDS MAXIMUM
 2. JAN. 1, 1971 OR AFTER VEHICLES, LESS THAN 4000 FT: NO. 1
RINGELMANN OR 20% OPACITY, 10-SECONDS MAXIMUM
- 2SEPT75

C. OTHER

EVAPORATIVE EMISSIONS OF HYDROCARBONS:

1. LIGHT-DUTY VEHICLES 1970 TO 1972: 6 GMS/TEST BY CARBON TRAP
TEST PROCEDURE.
 2. LIGHT-DUTY VEHICLES 1972 TO 1977: 2 GMS/TEST BY CARBON TRAP
TEST PROCEDURE.
 3. LIGHT-DUTY VEHICLES 1978: 6 GMS/TEST BY THE SEALED HOUSING
FOR EVAPORATIVE DETERMINATIONS TEST PROCEDURE.
 4. HEAVY-DUTY GASOLINE-POWERED VEHICLES: 2 GMS/TEST BY
ENGINEERING EVALUATION.
 5. AUXILIARY FUEL TANKS 1974: NO DEGRADATION IN EMISSIONS CONTROL
- 2SEPT75

CALIFORNIA--2

4. EMISSION INSPECTION STANDARDS

A. GASOLINE POWERED

PASSENGER CARS AND LIGHT-DUTY TRUCKS

YEAR	COLD START TEST	HYDROCARBONS	CARBON MONOXIDE	OXIDES OF NITROGEN
PRIOR TO CONTROLS	7-MODE	850 PPM	3.4%	1000 PPM
	7-MODE	11GM/MI	80 GM/MI	4 GM/MI
	CVS-75	8.8 GM/MI	87 GM/MI	3.6 GM/MI
1966-1967	7-MODE	275 PPM	1.5 %	NO STD
1968-1969	7-MODE			
	50-100 CID	410 PPM	2.3 %	NO STD
	101-140 CID	350 PPM	2.0 %	NO STD
	OVER-140 CID	275 PPM	1.5 %	NO STD
1970	7-MODE	2.2 GM/MI	23 GM/MI	NO STD
1971	7-MODE	2.2 GM/MI	23 GM/MI	4 GM/MI
1972	7-MODE	1.5 GM/MI	23 GM/MI	3 GM/MI
	CVS-72	3.2 GM/MI	39 GM/MI	*3.2 GM/MI
1973	CVS-72	3.2 GM/MI	39 GM/MI	3 GM/MI
1974	CVS-72	3.2 GM/MI	39 GM/MI	2 GM/MI
1975 PC+ LDT+	CVS-75	0.9 GM/MI	9 GM/MI	2 GM/MI
	CVS-75	2.0 GM/MI	20 GM/MI	2 GM/MI
1976 PC LDT	CVS-75	0.9 GM/MI	9 GM/MI	2 GM/MI
	CVS-75	0.9 GM/MI	17 GM/MI	2 GM/MI
1977 PC LDT	CVS-75	0.41 GM/MI	9.0 GM/MI	1.5 GM/MI
	CVS-75	0.9 GM/MI	17 GM/MI	2 GM/MI

GM/MI=GRAMS PER MILE

7-MODE=IS A 137 SECOND DRIVING CYCLE TEST.

CVS-72=IS A CONSTANT VOLUME SAMPLE COLD START TEST.

CVS-75=IS A CONSTANT VOLUME SAMPLE TEST WHICH INCLUDES COLD AND HOT STARTS.

*=HOT 7-MODE

+PC-PASSENGER CARS; LDT-LIGHT DUTY TRUCKS

2SEPT75

HIGHWAY AND MANDATORY INSPECTION EMISSION STANDARDS

HIGHWAY EXHAUST EMISSION: LIGHT-DUTY VEHICLES. THE EXHAUST EMISSION STANDARDS BELOW ARE THE MAXIMUM ALLOWABLE. THE INSPECTION SHALL CONSIST OF EMISSION MEASUREMENT FROM A HOT IDLING ENGINE WITH THE TRANSMISSION SET IN NEUTRAL.

CALIFORNIA--3

VEHICLE MODEL-YEAR	NO. OF CYLINDERS	HYDROCARBONS PPM HEXANE BY VOLUME+		CARBON MONOXIDE PERCENT BY VOLUME+	
		AI#	OTHERS*	AI#	OTHERS*
1955-1965	4 OR LESS	1900		8.0	
	5 OR MORE	1200		8.0	
1966-1967	4 OR LESS	1900		8.0	
	5 OR MORE	400	500	5.5	7.0
1968-1970	4 OR LESS	500	650	5.5	7.0
	5 OR MORE	400	500	5.5	7.0
1971&LATER	4 OR LESS	450	600	3.5	5.0
	5 OR MORE	250	350	3.0	4.0

+ AS MEASURED BY A NONDISPERSIVE INFRARED INSTRUMENT.

AIR INJECTION EMISSION CONTROL SYSTEM.

* OTHER REFERS TO VEHICLES NOT EQUIPPED WITH AIR INJECTION SYSTEMS.

MANDATORY INSPECTION EXHAUST EMISSIONS: LIGHT-DUTY VEHICLES. THE EXHAUST EMISSION STANDARDS BELOW ARE THE MAXIMUM ALLOWABLE. THE INSPECTION SHALL CONSIST OF EMISSION MEASUREMENTS OF VEHICLES MADE ON A DYNAMOMETER WITH THE ENGINE AT NORMAL OPERATING TEMPERATURE AND UNDER THE FOLLOWING DRIVING MODES AND CONDITIONS: IDLE MODE - TRANSMISSION SHALL BE IN NEUTRAL. DRIVING CONDITIONS FOR LOW CRUISE MODE AND HIGH CRUISE MODE ARE SET FORTH IN THE TABLE BELOW:

VEHICLE CURB WEIGHT PLUS 300 LBS.	DRIVING CYCLES (SPEED-LOAD COMBINATION)	
	LOW CRUISE	HIGH CRUISE
3,801 LB. & UP	32-35 MPH @ 10-12 HP	48-50 MPH @ 27-30 HP
2,801-3,800 LB.	29-32 MPH @ 8-10 HP	44-46 MPH @ 21-24 HP
2,000-2,800 LB.	22-25 MPH @ 4-6 HP	36-38 MPH @ 13-15 HP

WHEN THE VEHICLES ARE INSPECTED BY THIS PROCEDURE THE CONCENTRATIONS OF EXHAUST HYDROCARBON AND CARBON MONOXIDE EMISSIONS SAMPLED DURING EACH OF THE ABOVE TEST MODES SHALL NOT EXCEED THE LEVELS GIVEN IN THE TABLE BELOW:

VEHICLE MODEL YEAR	NO. OF CYLINDERS	IDLE	
		HC (PPM)	CO (%)
1955-1965	4 OR LESS	1900	8.0
	5 OR MORE	1200	8.0

CALIFORNIA--4

1966-1967	4 OR LESS	1900		8.0		
		AI	OTHERS	AI	OTHERS	
	5 OR MORE	400	500	5.5	7.0	
1968-1970	4 OR LESS	500	650	5.5	7.0	
	5 OR MORE	400	500	5.5	7.0	
1971 AND LATER	4 OR LESS	450	600	3.5	5.0	
	5 OR MORE	250	350	3.0	4.0	
VEHICLE MODEL YEAR	NO. OF CYLINDERS	LOW CRUISE			HIGH CRUISE	
		HC (PPM)	CO%	NOX (PPM)	HC (PPM)	CO%
1955-1965	4 OR LESS	1200	7.0	2500	1200	6.5
	5 OR MORE	1000	6.0	2500	1000	5.5
1965-1967	4 OR LESS	1200	7.0	2500	1200	6.5
	5 OR MORE	500	4.5	2500	500	4.0
1968-1970	4 OR LESS	600	5.0	2500	600	4.5
	5 OR MORE	500	4.5	2500	500	4.0
1971 AND LATER	4 OR LESS	500	4.0	2500	500	3.5
	5 OR MORE	400	3.0	2500	400	2.5

IN THE TABLE ABOVE, HC REFERS TO PARTS PER MILLION BY VOLUME OF HYDROCARBONS MEASURED AS HEXANE WITH A NONDISPERSIVE INFRARED INSTRUMENT; CO REFERS TO PERCENT BY VOLUME OF CARBON MONOXIDE; NOX REFERS TO PARTS PER MILLION BY VOLUME OF OXIDES OF NITROGEN; AI DESIGNATES AIR INJECTION EMISSION CONTROL SYSTEM. OTHERS REFERS TO VEHICLES NOT EQUIPPED WITH AIR INJECTION SYSTEMS.
2SEPT75

B. DIESEL POWERED

HEAVY-DUTY GASOLINE AND DIESEL VEHICLES OVER 6000 LBS. GVW

YEAR	STANDARD	HYDROCARBONS	CARBON MONOXIDE	OXIDES OF NITROGEN
1969-1971	GASOLINE	275 PPM	1.5%	NO STD
1972	GASOLINE	180 PPM	1.0%	NO STD
1973-1974	GASOLINE & DIESEL	HC + NOX = 16 GM/BHP HR; 40 GM/BHP HR		
1975-1976	GASOLINE & DIESEL	HC + NOX = 10 GM/BHP HR; 30 GM/BHP HR		
1977	ALTERNATE- EITHER	GASOLINE & DIESEL	HC + NOX = 5 GM/BHP HR; 25 GM/BHP HR	

CALIFORNIA--S

OR GASOLINE HC = 1 GM/BHP HR; CO = 25 GM/BHP
& DIESEL HR; NOX = 7.5 GM/BHP HR

GM/BHP HR = GRAMS PER BRAKE HORSEPOWER-HOUR
2SEPT75

C. OTHER

MOTORCYCLE EXHAUST HYDROCARBON EMISSIONS

1978 10 GM/KM

1980 5 GM/KM

1985 1.0 GM/KM

LPG AND NG POWERED VEHICLE CONVERSIONS 1969; MUST MEET
APPLICABLE EXHAUST EMISSION STANDARDS
2SEPT75

5. MAINTENANCE

NO PERSON SHALL REMOVE, ALTER OR RENDER INOPERATIVE ANY AIR
POLLUTION CONTROL DEVICES REQUIRED BY LAW.
2SEPT75

6. EXEMPTIONS

THE FOLLOWING VEHICLES ARE EXEMPT FROM EXHAUST AND EVAPORATIVE
EMISSIONS:

1. VEHICLES WITH ENGINES LESS THAN 50 CID
2. ALL 1974 AND OLDER MODEL YEAR DIESEL VEHICLES LESS THAN
6,001 LBS. GVW. (LIGHT-DUTY)
3. 1972 AND OLDER HEAVY-DUTY MODEL YEAR DIESEL VEHICLES
FIRST SOLD AND REGISTERED IN CALIFORNIA
4. 1973 AND OLDER HEAVY-DUTY MODEL YEAR NON-RESIDENT DIESEL
VEHICLES
5. IMPLEMENTS OF HUSBANDRY
6. MOTORCYCLES AND MOTOR-DRIVEN CYCLES
7. RACING VEHICLES DEFINED AS COMPETITION VEHICLES NOT USED
ON PUBLIC ROADS OR HIGHWAYS
8. VEHICLES SPECIFICALLY EXEMPTED BY THE BOARD
9. VEHICLES WHICH QUALIFY FOR SPECIAL LICENSE PLATES UNDER
SECTION 5004 OF THE VEHICLE CODE
10. VEHICLES OVER 6,000 LBS. (HEAVY-DUTY) MANUFACTURED BEFORE
JAN. 1, 1969. (GASOLINE AND DIESEL)
11. NEW VEHICLES MANUFACTURED WITH PROPANE OR NATURAL GAS
FUELED ENGINES
12. 1966 MODEL YEAR LIGHT-DUTY VEHICLES FOR WHICH NO NOX
RETROFIT DEVICE IS AVAILABLE
13. OFF-ROAD UTILITY VEHICLES BUILT BETWEEN JAN. 1 THROUGH
APRIL 30, 1970 ARE EXEMPT FROM EVAPORATIVE EMISSIONS
2SEPT75

CALIFORNIA--6

7. VEHICLE NOISE

- A. ADEQUATE MUFFLER IN CONSTANT OPERATION; NO CUTOUTS, BYPASSES OR MODIFICATIONS INCREASING SMOKE
- B. NOISE STANDARDS (ALL VALUES DB(A), 50 FT. FROM CENTER OF TRAVEL LANE OR FROM BOAT):

VEHICLE TYPE	SPEED LIMIT 35 MPH OR LESS		SPEED LIMIT OVER 35 MPH
	GRADE OVER +OR- 1%	GRADE WITHIN +OR- 1%	
1. OVER 5999 LB GVW	86	82	90
2. MOTORCYCLES	82	77	86
3. ALL OTHER VEHICLES	76	74	82
	MFG BEFORE 1/76	MFG 1/76 TO 1/78	MFG AFTER 1/78
4. MOTORBOATS	86	84	82

- C. HIGHWAY PATROL EXHAUST SYSTEM TEST PROCEDURE FOR PASSENGER CARS AND VEHICLES (OTHER THAN MOTORCYCLES) G.V.W. LESS THAN 6,000 LBS.
 - 1. EXHAUST NOISE 95 DB(A) OR LESS, 20 INCHES FROM EXHAUST OUTLET AT 45 DEGREES (NORMAL ENGINE RUNNING TEMPERATURE WITH TRANSMISSION IN NEUTRAL.
 - 2. VEHICLES MFG. AFTER 1967 MAY EXCEED 95 DB(A) IF REPLACEMENT PARTS ARE NOT LOUDER THAN ORIGINAL EQUIPMENT.
 - 3. MOTORCYCLES AND HEAVY TRUCKS WILL BE COVERED AT A LATER DATE
- D. NEW VEHICLES MUST SATISFY CALIFORNIA VEHICLE CODE, SECTION 27160 (TOO DETAILED TO INCLUDE) FOR REGISTRATION
- E. PENALTIES: MISDEMEANOR
- F. EXEMPTIONS:
 - 1. VEHICLES WITH AT LEAST 2 SNOW TIRES
 - 2. SANCTIONED RACING VEHICLES WHILE ON TRACK
 - 3. OFFROAD VEHICLES

30APR76

8. REMARKS

A PILOT PROGRAM BEGAN SEPT. 2, 1975 IN RIVERSIDE, CAL., WHERE VEHICLES ARE CHECKED. ON BOTH THE CHASSIS DYNAMOMETER AND EXHAUST EMISSION ANALYZER. IT IS PLANNED WITHIN THE NEXT YEAR TO HAVE 85 DIAGNOSTIC CENTERS OR INSPECTION STATIONS WITH THE STATE OF CALIFORNIA (LOWER PORTION OF STATE). WHEN THIS BECOMES OPERATIONAL A STAGGERED INSPECTION SYSTEM WILL BE INCORPORATED
2SEPT75

9. DATE OF LAST REVISION:

CHICAGO

1. AGENCIES

A. EPA REGION
SEE ILLINOIS

B. STATE
SEE ILLINOIS

C. COUNTY OR DISTRICT

CHICAGO DEPARTMENT OF ENVIRONMENTAL CONTROL, MOBILE SOURCE DIV;
ASST. DIRECTOR: DONALD L. BROWN; (312) 744-7217; 320 N. CLARK
STREET., CHICAGO, IL 60610
20NOV75

2. SOURCE

CHICAGO VEHICLE EMISSION TESTING ORDINANCE 17-2A
20NOV75

3. VISIBLE EMISSIONS

A. GASOLINE POWERED

NO. 1 RINGELMANN MAXIMUM OPACITY
20NOV75

B. DIESEL POWERED

LUGGING, 20% MAXIMUM OPACITY
ACCELERATING, 40% MAXIMUM OPACITY
20NOV75

C. OTHER

4. EMISSION INSPECTION STANDARDS

A. GASOLINE POWERED

STANDARDS TO BE MET FOR CLEAR AIR TEST AT IDLE
NONFLEET (PRIVATELY OWNED CARS)

YEAR	HYDROCARBONS	CARBON MONOXIDE
PRE 1968	1000 PPM	6.0%
1968-1969	600 PPM	5.0%
1970-1974	500 PPM	4.0%
1975&LATER	250 PPM	1.5%

CHICAGO--2

FLEET (10 OR MORE VEHICLES OPERATED BY ONE PERSON OR CORPORATION)

PRE 1968	600 PPM	5.0%
1968-1969	400 PPM	4.5%
1970-1974	300 PPM	3.5%
1975&LATER	150 PPM	1.3%

PASSENGER CARRIERS FOR HIRE (BUSSES, TAXIES, LIMOUSINES, ETC.)

PRE 1968	400 PPM	3.0%
1968-1969	300 PPM	2.0%
1970-1974	300 PPM	1.5%
1975&LATER	100 PPM	0.8%

ALL VEHICLES ARE REQUIRED TO MEET THE ABOVE STANDARDS AT 2250 RPM
PLUS OR MINUS 250 RPM (HIGH IDLE)
20NOV75

B. DIESEL POWERED

C. OTHER

5. MAINTENANCE

- A. VEHICLES MUST MAINTAIN THE ABOVE STANDARDS (3.A, B AND 4.A)
 - B. NO PERSON SHALL REMOVE, ALTER OR RENDER INOPERATIVE ANY AIR POLLUTION CONTROL DEVICES REQUIRED BY FEDERAL LAW OR REGULATION
- 20NOV75

6. EXEMPTIONS

7. VEHICLE NOISE

- A. NO MUFFLER MODIFICATIONS WHICH INCREASE VEHICLE NOISE LEVELS ABOVE STOCK ORIGINAL LEVELS
- B. MUNICIPAL REGULATIONS (VALUES ARE DB(A) MEASURED 50 FT. FROM CENTER OF LANE OF TRAVEL):

NEW MOTOR VEHICLES

TYPE OF VEHICLE	DATE OF MANUFACTURE	NOISE LIMIT
1. MOTORCYCLES	BEFORE 1 JAN. 1970	92 DB(A)
	AFTER 1 JAN. 1970	88 DB(A)
	AFTER 1 JAN. 1973	86 DB(A)
	AFTER 1 JAN. 1975	84 DB(A)
	AFTER 1 JAN. 1980	75 DB(A)

CHICAGO--3

2. ANY MOTOR VEHICLE WITH A GVW OF 8000 LB OR MORE	AFTER 1 JAN. 1968	80 DB(A)
	AFTER 1 JAN. 1973	86 DB(A)
	AFTER 1 JAN. 1975	84 DB(A)
	AFTER 1 JAN. 1980	75 DB(A)
3. PASSENGER CARS, MOTOR- DRIVEN CYCLE AND ANY OTHER MOTOR VEHICLE	BEFORE 1 JAN. 1973	86 DB(A)
	AFTER 1 JAN. 1973	84 DB(A)
	AFTER 1 JAN. 1975	80 DB(A)
	AFTER 1 JAN. 1980	75 DB(A)

VEHICLES OPERATED ON PUBLIC ROADS

TYPE OF VEHICLE	NOISE LIMIT IN RELATION TO POSTED SPEED LIMIT	
	35 MPH OR LESS	OVER 35 MPH
1. ANY MOTOR VEHICLE WITH A GVW RATING OF 8000 LB. OR MORE, AND COMBINATION OF VEHICLES TOWED BY SUCH MOTOR VEHICLE	BEFORE 1 JAN. 1973	86 DB(A)
	AFTER 1 JAN. 1973	90 DB(A)
2. ANY MOTORCYCLE OTHER THAN A MOTOR-DRIVEN CYCLE	BEFORE 1 JAN. 1978	82 DB(A)
	AFTER 1 JAN. 1978	86 DB(A)
3. ANY OTHER MOTOR VEHICLE AND ANY COMBINATION OF MOTOR VEHICLES TOWED BY SUCH MOTOR VEHICLE	AFTER 1 JAN. 1970	76 DB(A)
	AFTER 1 JAN. 1978	79 DB(A)

POWERED TOOLS AND EQUIPMENT

TYPE OF EQUIPMENT	NOISE LIMIT
1. CONSTRUCTION AND INDUSTRIAL MACHINERY, SUCH AS CRAWLER-TRACTORS, DOZERS, ROTARY DRILLS AND AUGERS, LOADERS, POWER SHOVELS, CRANES, DERRICKS, MOTOR GRADERS, PAVING MACHINES, OFF- HIGHWAY TRUCKS, DITCHERS, TRENCHERS, COMPACTORS, SCRAPERS, WAGONS, PAVEMENT BREAKERS, COMPRESSORS, AND PNEUMATIC POWERED EQUIPMENT, ETC., BUT NOT INCLUDING PILE DRIVERS	MANUFACTURED AFTER 1 JAN. 1972
	MANUFACTURED AFTER 1 JAN. 1973
	MANUFACTURED AFTER 1 JAN. 1975
	MANUFACTURED AFTER 1 JAN. 1980
	94 DB(A)
	83 DB(A)
	86 DB(A)
	80 DB(A)

CHICAGO--4

2. AGRICULTURAL TRACTORS AND EQUIPMENT

MANUFACTURED AFTER 1 JAN. 1972	88 DB(A)
MANUFACTURED AFTER 1 JAN. 1975	86 DB(A)
MANUFACTURED AFTER 1 JAN. 1980	80 DB(A)

3. POWERED COMMERCIAL EQUIPMENT OF 20 HP OR LESS
INTENDED FOR INFREQUENT USE IN A RESIDENTIAL AREA,
SUCH AS CHAIN SAWS, PAVEMENT BREAKERS, LOG
CHIPPERS, POWERED HAND TOOLS, ETC.

MANUFACTURED AFTER 1 JAN. 1972	88 DB(A)
MANUFACTURED AFTER 1 JAN. 1973	84 DB(A)
MANUFACTURED AFTER 1 JAN. 1980	80 DB(A)

4. POWERED EQUIPMENT INTENDED FOR REPETITIVE USE IN
RESIDENTIAL AREAS. SUCH EQUIPMENT INCLUDES LAWN
MOWERS, SMALL LAWN AND GARDEN TOOLS, RIDING
TRACTORS, SNOW REMOVAL EQUIPMENT

MANUFACTURED AFTER 1 JAN. 1972	74 DB(A)
MANUFACTURED AFTER 1 JAN. 1975	70 DB(A)
MANUFACTURED AFTER 1 JAN. 1978	65 DB(A)

C. TWO-MINUTE MAXIMUM STATIONARY IDLE ON PRIVATE PROPERTY AND WITHIN
150 FEET OF RESIDENTIAL ZONE PROPERTY (APPLIES TO VEHICLES OVER
8000 LB GVW UNLESS IN COMPLETELY ENCLOSED AREA)

D. PENALTY: \$15-300 FIRST OFFENSES; \$50-500 SUBSEQUENT OFFENSES IN
ANY 180-DAY PERIOD. MORE THAN 3 OFFENSES IN 180 DAYS IS
MISDEMEANOR (6-MONTH MAXIMUM INCARCERATION)
20NOV75

8. REMARKS

PENALTIES: SHALL BE PUNISHED BY A FINE OF BETWEEN \$15.00 - \$300.00
FOR THE FIRST OFFENSE AND \$50.00 - \$500.00 FOR THE SECOND
AND EACH SUBSEQUENT OFFENSE IN ANY 180 DAY PERIOD

20NOV75

9. DATE OF LAST REVISION

CINCINNATI (HAMILTON COUNTY)

1. AGENCIES

A. EPA REGION
SEE OHIO

B. STATE
SEE OHIO

C. COUNTY OR DISTRICT

AIR POLLUTION CONTROL DIVISION, SUPERINTENDENT: E. D. EMMENC;
(513) 352-4880; 2400 BEEKMAN ST., CINCINNATI, OH 45214
21NOV75

2. SOURCE

3. VISIBLE EMISSIONS

A. GASOLINE POWERED
NO VISIBLE SMOKE
21NOV75

B. DIESEL POWERED

C. OTHER

4. EMISSION INSPECTION STANDARDS

CAR MODEL YEAR	MAXIMUM LIMITS	
	HYDROCARBONS	CARBON MONOXIDE
PRE 1968	1000 PPM	6.0%
1968-1969	600 PPM	5.0%
1970-1974	500 PPM	4.0%
1975 21NOV75	250 PPM	1.5%

B. DIESEL POWERED

C. OTHER

5. MAINTENANCE

VEHICLE MUST MAINTAIN THE ABOVE STANDARDS

6. EXEMPTIONS

CONDENSED WATER VAPOR
21NOV75

CINCINNATI--2

7. VEHICLE NOISE

8. REMARKS

IF VEHICLE FAILS IT RECEIVES A 30 DAY TEMPORARY STICKER IN WHICH
REPAIR MUST BE MADE AND REINSPECTED
21NOV75

9. DATE OF LAST REVISION

NEVADA

1. AGENCIES

A. EPA REGION IX
11SEPT75

REGIONAL ADMINISTRATOR:
PAUL DEFALCO, JR.; (415) 556-2320; 100 CALIFORNIA ST., SAN
FRANCISCO, CA 94111
11SEPT75

B. STATE

DEPARTMENT OF HUMAN RESOURCES, DIRECTOR: R. S. TROUNDA;
(702) 885-4670; 1209 JOHNSON ST., CARSON CITY, NV 89701
11SEPT75

C. COUNTY OR DISTRICT

2. SOURCE

NEVADA AIR QUALITY REGULATION, ARTICLE 11
11SEPT75

3. VISIBLE EMISSIONS

A. GASOLINE POWERED

NO VISIBLE SMOKE WHILE MOVING A DISTANCE OF A 100 YDS. OR MORE
11SEPT75

B. DIESEL POWERED

1. BELOW 5,000 FT. ELEVATION:
MANUFACTURED PRIOR TO JAN. 1, 1970: 40% OPACITY, 15-SECOND MAXIMUM
MANUFACTURED AFTER JAN. 1, 1970: 20% OPACITY, 15-SECOND MAXIMUM
2. ABOVE 5,000 FT. ELEVATION:
40% OPACITY, 15-SECOND MAXIMUM
3. AN AGGREGATE OF 5-MINUTES OVER APPLICABLE OPACITY LIMITATION
IN ANY ONE HOUR PERIOD
11SEPT75

C. OTHER

4. EMISSION INSPECTION STANDARDS

A. GASOLINE POWERED

FOR ANY LIGHT-DUTY GASOLINE MOTOR VEHICLE SUBJECT TO INSPECTION:

MODEL YEAR OF VEHICLE	CO(%)	HC(PPM)
UP TO & INCLUDING 1967	7.5	1200
1968 - 1969	5.0	600
1970	4.0	400

NEVADA--2

*1971 & LATER

4.0

400

* ENGINE MUST BE TUNED TO THE MANUFACTURER'S EMISSION CONTROL SPECIFICATIONS

WITH VEHICLE IN NEUTRAL GEAR AND ACCESSORIES OFF, ALL MEASUREMENTS ARE MADE AT NORMAL OPERATING CONDITIONS, WITH THE ENGINE RUNNING AT MANUFACTURERS RECOMMENDED IDLE AND AT 2,250 RPM +OR- 250 RPM
11SEPT75

B. DIESEL POWERED

C. OTHER

5. MAINTENANCE

NO PERSON SHALL DISCONNECT OR ALTER ANY EMISSION CONTROL DEVICES REQUIRED BY STATE OR FEDERAL LAW
11SEPT75

6. EXEMPTIONS

7. VEHICLE NOISE

A. NO PERSON SHALL OPERATE A MOTOR VEHICLE OR COMBINATION OF VEHICLES AS TO EXCEED THE FOLLOWING LIMITS (VALUES ARE DB(A) MEASURED 50 FT FROM CENTER OF LANE OF TRAVEL):

35 MPH OR LESS OVER 35 MPH

1. MFG G.V.W. OF 5000 LBS OR MORE AND ANY COMBINATION TOWED BY SUCH

BEFORE 1 JAN 1973 88 90

1 JAN 1973 AND AFTER 86 90

2. ANY MOTORCYCLE 82 86

3. OTHER MOTOR VEHICLES AND ANY COMBINATION OF VEHICLES TOWED BY SUCH 76 82

B. NO PERSON SHALL SELL OR OFFER FOR SALE A NEW MOTOR VEHICLE WHICH PRODUCES A MAXIMUM NOISE EXCEEDING THE FOLLOWING (VALUES ARE DB(A) MEASURED 50 FT FROM THE CENTER LANE OF TRAVEL):

DATE MANUFACTURED

VEHICLE TYPE 1/72 TO 1/73 ON/AFTER 1/73

1. MOTORCYCLE AND MOTOR VEHICLE WITH 6000 LBS G.V.W. OR MORE 88 86

NEVADA--3

2. ANY OTHER MOTOR VEHICLE
3MAY76

86

84

8. REMARKS

9. DATE OF LAST REVISION:

NEW JERSEY

1. AGENCIES

A. EPA REGION II
13AUG75

REGIONAL ADMINISTRATOR:
GERALD M. HANSLER, ROOM 2303; (671) 223-7210
JOHN F. KENNEDY FEDERAL BLDG., BOSTON, MA 02203
13AUG75

B. STATE

DEPARTMENT OF ENVIRONMENTAL PROTECTION, COMMISSIONER:
DAVID J. BARDIN; (609) 292-2885; P.O. BOX 1390; TRENTON,
NJ 08625
13AUG75

C. COUNTY OR DISTRICT

2. SOURCE

NEW JERSEY LIGHT-DUTY MOTOR VEHICLE REGULATIONS AND NEW JERSEY
REGULATIONS ON DIESEL-POWERED MOTOR VEHICLES. ADMINISTRATIVE
CODE, CHAPTER 27, SUBCHAPTERS 14 AND 15
13AUG75

3. VISIBLE EMISSIONS

A. GASOLINE POWERED

NO VISIBLE SMOKE IN EXHAUST
13AUG75

B. DIESEL POWERED

C. OTHER

4. EMISSION INSPECTION STANDARDS

A. GASOLINE POWERED

MODEL YEAR UP TO AND INCLUDING	AUG. 1, 1975 CO(%) - HC (PPM)		JAN. 1, 1977 CO(%) - HC (PPM)	
1967	8.5	1400	7.5	1200
1968-1969	7.0	700	5.0	600
1970-1974	5.0	500	4.0	400
1975-1976*	3.0	300	2.0	200

NEW JERSEY--2

* EFFECTIVE DATE OCT. 1, 1975

INSPECTION PROCEDURE (ALL MEASUREMENTS MADE AT NORMAL OPERATING CONDITIONS)

STEP 1: NEUTRAL GEAR, ACCESSORIES OFF, ACCELERATE ENGINE, OBSERVE FOR VISIBLE SMOKE IN EXHAUST AND CRANKCASE EMISSIONS

STEP 2: RUN ENGINE AT IDLE, MEASURE CO(%) AND HC(PPM)

13AUG75

B. DIESEL POWERED

TRUCKS

(ALL MEASUREMENTS MADE AT NORMAL OPERATING CONDITIONS)

1. VEHICLES DRIVEN ON CHASSIS DYNAMOMETER WITH SIMULATED LOAD BY POWER ABSORPTION--SMOKE OPACITY STANDARD 20% MAXIMUM

2. VEHICLE DRIVEN IN LOW GEAR SIMULATED LOAD BY BRAKING ACTION--SMOKE OPACITY STANDARD 20% MAXIMUM

BUSES

VEHICLE DRIVEN WITH RAPID ACCELERATION TO APPROXIMATELY 20 MPH: SMOKE OPACITY STANDARD - 40% MAXIMUM

13AUG75

C. OTHER

5. MAINTENANCE

SUCH AS TO COMPLY WITH HIGHWAY AND INSPECTION STANDARDS

13AUG75

6. EXEMPTIONS

A. MOTORCYCLES

B. VEHICLES WITH LESS THAN 50 CID

C. DIESEL POWERED VEHICLES UNDER 6,000 LBS

13AUG75

7. VEHICLE NOISE

FOLLOWING ARE REQUIREMENTS FOR VEHICLE OPERATION ON NEW JERSEY TURN-PIKE SYSTEM ONLY:

A. ALL VEHICLES MUST HAVE NOISE DISSIPATIVE DEVICE (MUFFLER) IN CONSTANT OPERATION AND PROPERLY MAINTAINED. NO CUT-OUTS, BY-PASSES, ETC., WHICH WILL INCREASE VEHICLE NOISE. ALSO SPECIFIC TIRE TREAD PATTERNS ARE PROHIBITED IF CAUSE EXCESSIVE NOISE.

B. MAXIMUM ALLOWABLE SOUND LEVELS (VALUES ARE DB(A) MEASURED 50 FT. FROM CENTER OF LANE OF TRAVEL):

NEW JERSEY--3

TYPE OF VEHICLE	POSTED SPEED LIMIT OR POSTED ADVISORY SPEED	
	35 MPH OR LESS	OVER 35 MPH
ANY VEHICLE HAVING SIX OR MORE TIRES, OR ANY VEHICLE HAVING G.V.W.R. OR G.C.W.R. IN EXCESS OF 10,000 LBS		
AFTER 1 JAN 1975	86	90
	45 MPH OR LESS	OVER 45 MPH
AFTER 1 JAN 1978	80	84
AFTER 1 JAN 1990	75	78
ANY VEHICLE WITH 4 TIRES OR A G.V.W.R. OF LESS THAN 10,000 LBS	35 MPH OR LESS	OVER 35 MPH
AFTER 1 JUN 1974	76	82
AFTER 1 JAN 1978	70	79
ANY MOTORCYCLE		
AFTER 1 JUN 1974	82	86
AFTER 1 JAN 1978	78	82
AFTER 1 JAN 1990	75	78

- C. NO VEHICLE WITH AN ENGINE SPEED GOVERNOR ON NEW JERSEY TURNPIKE IF SOUND LEVEL OVER 88 DB(A) AT 50 FT. WHEN ACCELERATED WITH WIDE OPEN THROTTLE, FROM IDLE TO GOVERNED SPEED WITH VEHICLE STATIONARY, TRANSMISSION IN NEUTRAL, AND CLUTCH ENGAGED.
- D. EXEMPT; CONSTRUCTION EQUIPMENT MOVING AT 5 MPH OR LESS, WARNING DEVICES, EMERGENCY VEHICLES OR SNOWPLOWS
- E. PENALTIES: \$25 - \$1000 FOR VIOLATORS
29APR76

8. REMARKS

CONSIDERING RETROFIT WHEN FEASIBLE
13AUG75

9. DATE OF LAST REVISION:

NEW YORK

1. AGENCIES

A. EPA REGION 11
18SEP75

REGIONAL ADMINISTRATOR:
GERALD M. HANSLER; (212) 264-2525; ROOM 1009D, 26 FEDERAL PLAZA,
NEW YORK, NY 10007
30DEC75

B. STATE

DEPARTMENT OF ENVIRONMENTAL CONSERVATION, COMMISSIONER JGDEN
REID; (518) 457-7231; 50 WOLF RD., ALBANY NY 12233
30DEC75

C. COUNTY OR DISTRICT

2. SOURCE

NEW YORK RULES ON MOTOR VEHICLE EMISSIONS, TITLE 6, CHAPTER III,
SUBCHAPTER A, PARTS 217 AND 218
30DEC75

3. VISIBLE EMISSIONS

A. GASOLINE POWERED

NO BLUE, BLACK OR BLUE-BLACK SMOKE, 5-SECOND MAXIMUM WHEN IN
MOTION
30DEC75

B. DIESEL POWERED

NO. 1 RINGELMANN, 5-SECOND MAXIMUM WHEN IN MOTION; TRUCKS
AND BUSES 5-MINUTE MAXIMUM IDLE WHEN NOT IN MOTION
30DEC75

C. OTHER

4. EMISSION INSPECTION STANDARDS

A. GASOLINE POWERED

LIGHT-DUTY (GVW 6000 LB. OR LESS)*

MODEL YEAR	EFFECTIVE JAN. 1, 1976		EFFECTIVE MAY 1, 1978		EFFECTIVE MAY 1, 1980	
	CO(%)	HC(PPM)	CO(%)	HC(PPM)	CO(%)	HC(PPM)
PRE-1968	10.0	1600	8.5	1400	7.5	1200
1968-1969	8.0	800	7.0	700	6.0	600

NEW YORK--2

1970-1974	6.0	600	5.0	500	4.0	400
1975&LATER	3.0	300	2.0	200	-	-

PROCEDURE: I. VISIBLE SMOKE CHECK (ENGINE WARM, NEUTRAL, ACCESSORIES OFF, HAND BRAKE ON, ACCELERATE ENGINE AND OBSERVE)

II. IDLE HC/CO CHECK (STEADY IDLE, REJECT FOR HC, CO, OR BOTH)

HEAVY-DUTY (GVW MORE THAN 6000 POUNDS)*

MODEL YEAR	EFFECTIVE JAN. 1, 1976		
	IDLE CO(%)	HC(PPM)	2500 RPM CO(%)
1970&EARLIER	4	700	1.5
1971&LATER	2	100	1.5

PROCEDURE: I. VISIBLE SMOKE CHECK (ENGINE WARM, NEUTRAL, ACCESSORIES OFF, HANDBRAKE ON, ACCELERATE ENGINE TO 2500 RPM AND OBSERVE WHEN STEADY)

II. 2500RPM CO CHECK (CONTINUE AT 2500 RPM, MEASURE CO WHEN STEADY)

III. IDLE HC/CO CHECK (DECELERATE ENGINE TO IDLE, MEASURE HC/CO WHEN STEADY IDLE)

NOTE: NEW YORK COMMISSIONER, DMV, CAN ISSUE WAIVERS FOR ANY HEAVY-DUTY VEHICLE MANUFACTURER, MODEL, YEAR, ENGINE, ETC. SAME FOR PRE-1968 LIGHT-DUTY VEHICLES

HEAVY-DUTY GASOLINE RETROFIT EXHAUST EMISSION CONTROLS SYSTEMS MUST BE CERTIFIED BY STATE AUTHORITIES AND MUST ACHIEVE REDUCTION AS FOLLOWS:

MODEL YEAR	MINIMUM REDUCTIONS *	
	CO	HC
1970&EARLIER	50%	NO INCREASE
1971&LATER	60%	60%

* TO BE PROMULGATED BY AMENDMENT

LIGHT AND HEAVY-DUTY GASOLINE STANDARDS AND RETROFIT REDUCTIONS APPLY TO (A) ALL VEHICLES REGISTERED IN NEW YORK METROPOLITAN AREA (NEW YORK CITY PLUS NASSAU, SUFFOLK, ROCKLAND AND WESTCHESTER COUNTIES), AND (B) ANY AND ALL VEHICLES OPERATING ON PUBLIC STREETS OR HIGHWAYS IN NEW YORK CITY

NOTE: ALL INSPECTIONS ANNUAL (VISIBLE AND EXHAUST)

NEW YORK--3

PENALTIES: DENIAL OF NEW YORK REGISTRATION (VISIBLE EMISSIONS VIOLATION); \$2500 FIRST OFFENSE PLUS \$500/DAY THEREAFTER - AFTER CEASE AND DESIST ORDER ISSUED (GASEOUS EMISSIONS VIOLATION)

30DEC75

B. DIESEL POWERED

C. OTHER

5. MAINTENANCE

MUST MAINTAIN ALL MANUFACTURER-INSTALLED EMISSION CONTROL DEVICES. 1964-1967 GASOLINE VEHICLES MUST HAVE SPECIFIC CRANKCASE EMISSIONS CONTROLS

30DEC75

6. EXEMPTIONS

A. R&D ON EMISSIONS CONTROL DEVICES (MODIFICATION PERMITTED)

B. IDLING DUE TO UNCONTROLLABLE TRAFFIC CONDITIONS

C. WHEN DIESEL VEHICLE PROVIDES POWER FOR AUXILIARY PURPOSES: SERVICING, FARMING OR OPERATION FOR MAINTENANCE

D. WHEN A DIESEL TRUCK WILL REMAIN MOTIONLESS IN EXCESS OF TWO HOURS AND THE AMBIENT TEMPERATURE IS BELOW 25 DEGREES F.

30DEC75

7. VEHICLE NOISE

NOISE CONTROL ACTIONS UNDER STUDY

30DEC75

8. REMARKS

9. DATE OF LAST REVISION:

OREGON

1. AGENCIES

A. EPA REGION X
29DEC75

REGIONAL ADMINISTRATOR:

L. EDWIN COATE; (206) 442-1220; 1200 6TH AVE., SEATTLE, WA 98101
29DEC75

B. STATE

DEPARTMENT OF ENVIRONMENTAL QUALITY, DIRECTOR: KESSLER R. CANNON;
(503) 229-5696; 1234 S.W. MORRISON ST., PORTLAND, OR 97205
29DEC75

C. COUNTY OR DISTRICT

2. SOURCE

OREGON ADMINISTRATIVE RULES; CHAPTER 340, DIVISION 2, SUB-
DIVISION 4. ORS 468.360 TO 468.405, 481.190 TO 481.200, AND
483.300 TO 483.825; MOTOR VEHICLE EMISSION CONTROL INSPECTION
TEST CRITERIA, METHODS AND STANDARDS, 24-310, 24-310, 24-320,
24-330, 24-340, 24-350
29DEC75

3. VISIBLE EMISSIONS

A. GASOLINE POWERED

NO VISIBLE EMISSIONS
PENALTY: REGISTRATION REVOCATION
29DEC75

B. DIESEL POWERED

1. BELOW 3,000 FT. MSL: 40% MAXIMUM OPACITY, WITH 10% MAXIMUM FOR
7-CONSECUTIVE SECONDS
2. ABOVE 3,000 FT. MSL: 60% MAXIMUM OPACITY, WITH 20% MAXIMUM
FOR 7-CONSECUTIVE SECONDS
PENALTY: REGISTRATION REVOCATION
29DEC75

C. OTHER

UPON WRITTEN NOTICE, REQUIRE ANY MOTOR VEHICLE FLEET OPERATION TO
CERTIFY ANNUALLY THAT ITS VEHICLES ARE MAINTAINED IN GOOD WORKING
ORDER
29DEC75

4. EMISSION INSPECTION STANDARDS

A. GASOLINE POWERED

PENALTY: REGISTRATION REVOCATION

OREGON--2

1. LIGHT DUTY MOTOR VEHICLE EMISSION CONTROL IDLE EMISSION STANDARDS (CARBON MONOXIDE IDLE EMISSION VALUES NOT TO BE EXCEEDED):

TEST METHOD: VEHICLE IN NEUTRAL GEAR, BRAKES ON, ALL ACCESSORIES OFF. ENGINE AT IDLE, SAMPLING PROBE IN EXHAUST OUTLET, NO LOAD. ACCELERATE TO BETWEEN 2,200 RPM AND 2,700 RPM AND MAINTAINED FOR 4 TO 8 SECOND PERIOD AND RETURNED TO IDLE. THE STEADY STATE LEVELS OF THE GASES ARE MEASURED AT IDLE AND RECORDED

DUAL EXHAUST: AVERAGE OF OUTLETS

MULTIFUEL VEHICLES: PASS BOTH TESTS ON EACH FUEL

IDLE TOLERANCE: MFG RECOMMENDED PLUS 200 RPM (1968 OR NEWER); 1250 RPM MAXIMUM ANY AGE VEHICLE

VISUAL INSPECTION OF ALL CONTROLS AND DEVICES

VEHICLE	BASE STANDARD CO. %	ENFORCEMENT TOLERANCE THROUGH JUNE 1976
ALFA ROMEO		
1975	-	-
1971 THROUGH 1974	3.0	1.0
1968 THROUGH 1970	4.0	1.5
PRE-1968	6.0	0.5
AMERICAN MOTORS CORPORATION (JEEP)		
1975 NON-CATALYST	1.0	0.5
1975 CATALYST EQUIPPED	0.5	0.5
1972 THROUGH 1974	2.0	1.0
1970 THROUGH 1971	3.5	1.0
1968 THROUGH 1969	5.0	0.5
PRE-1968	6.0	0.5
AUDI		
1975	1.0	0.5
1971 THROUGH 1974	2.5	1.0
1968 THROUGH 1970	4.0	1.0
PRE-1968	6.0	0.5
BMW		
1975	-	-
1974, 6 CYL	2.5	1.0
1974, 4 CYL	2.0	1.0
1971 THROUGH 1973	3.0	1.0
1968 THROUGH 1970	4.0	1.0
PRE-1968	6.0	0.5
BRITISH LEYLAND		
AUSTIN, AUSTIN HEALEY, MORRIS, AMERICA AND MARINA		
1975	-	-
1973 THROUGH 1974	2.5	1.0
1971 THROUGH 1972	4.0	1.0
1968 THROUGH 1970	5.0	1.0
PRE-1968	6.5	0.5

OREGON--3

JAGUAR		
1975	-	-
1972 THROUGH 1974	3.0	1.0
1968 THROUGH 1971	4.0	1.0
PRE-1968	6.0	0.5
MG		
1975	-	-
1973 THROUGH 1974		
MGB, MGBGT, MGC	3.0	1.0
1971 THROUGH 1974 MIDGET	3.0	1.0
1972 MGB, MGC	4.0	1.0
1968 THROUGH 1971,		
EXCEPT 1971 MIDGET	5.0	1.0
PRE-1968	6.5	0.5
ROVER		
1975	-	-
1971 THROUGH 1974	4.0	1.0
1968 THROUGH 1970	5.0	0.5
PRE-1968	6.0	0.5
TRIUMPH		
1975	-	-
1971 THROUGH 1974	3.0	1.0
1968 THROUGH 1970	4.0	1.0
PRE-1968	6.5	0.5
CHEVROLET		
1975 NON-CATALYST	1.0	0.5
1975 CATALYST EQUIPPED	0.5	0.5
1973 THROUGH 1974	1.0	1.0
1970 THROUGH 1972	2.5	1.0
1968 THROUGH 1969	3.5	1.0
PRE-1968	6.0	0.5
CHRYSLER CORPORATION		
PLYMOUTH, DODGE, CHRYSLER		
1975 NON-CATALYST	1.0	0.5
1975 CATALYST EQUIPPED	0.5	0.5
1972 THROUGH 1974	1.0	1.0
1969 THROUGH 1971	1.5	1.0
1968	2.0	1.5
PRE-1968	6.0	0.5
CITROEN		
1975	-	-
1971 THROUGH 1974	3.0	1.0
1968 THROUGH 1970	4.0	1.0
PRE-1968	6.0	0.5
COLT, DODGE		
1975	-	-
1971 THROUGH 1974	5.0	1.0
PRE-1971	6.0	0.5

OREGON--4

COURIER, FORD		
1975	-	-
1973 THROUGH 1974	2.0	1.0
PRE-1973	4.0	1.0
CRICKET, PLYMOUTH		
1975	-	-
1973 THROUGH 1974		
(TWIN CARB. ONLY)	3.0	1.0
1972 (TWIN CARB. ONLY)	4.5	1.0
PRE-1972 (AND 1972 THROUGH		
1973 SINGLE CARB. ONLY)	7.5	0.5
DATSUN		
1975	-	-
1968 THROUGH 1974	2.5	1.0
PRE-1968	6.0	0.5
FERRARI		
1975	-	-
1971 THROUGH 1974	2.5	1.5
1968 THROUGH 1970	4.0	1.5
PRE-1968	6.0	0.5
FIAT		
1975	-	-
1974	2.5	1.0
1972 THROUGH 1973		
124 SPEC. SEDAN AND WAGON	4.0	1.0
1972 THROUGH 1973		
124 SPORT COUPE AND SPIDER	3.0	1.0
1972 THROUGH 1973 850	3.0	1.0
1971 850 SPORT COUPE		
AND SPIDER	3.0	1.0
1971 850 SEDAN	6.0	0.5
1968 THROUGH 1970, EXCEPT 850	5.0	0.5
1968 THROUGH 1970 850	6.0	0.5
PRE-1968	6.0	0.5
FORD MOTOR COMPANY		
FORD, LINCOLN, MERCURY, CAPRI,		
DE TOMASO, PANTERA		
1975 NON-CATALYST	1.0	0.5
1975 CATALYST EQUIPPED	0.5	0.5
1972 THROUGH 1974,		
EXCEPT 4 CYL	1.0	1.0
1972 THROUGH 1974, 4 CYL.,		
EXCEPT 1971-1973 CAPRI	2.0	1.0
1971 THROUGH 1973 CAPRI ONLY	2.5	1.0
1970 THROUGH 1971	2.0	1.0
1968 THROUGH 1969	3.5	1.0
PRE-1968	6.0	0.5

OREGON--5

GENERAL MOTORS		
BUICK, CADILLAC, CHEVROLET,		
GMC, OLDSMOBILE, PONTIAC		
1975 NON-CATALYST	1.0	0.5
1975 CATALYST EQUIPPED	0.5	0.5
1972 THROUGH 1974	1.0	1.0
1970 THROUGH 1971,		
EXCEPT 4 CYL	1.5	1.0
1970 THROUGH 1971, 4 CYL	2.5	1.0
1968 THROUGH 1969	3.5	1.0
PRE-1968	6.0	0.5
HONDA AUTOMOBILE		
1975	-	-
1973 THROUGH 1974	3.0	1.0
PRE-1973	5.0	1.0
INTERNATIONAL HARVESTER		
1975	-	-
1972 THROUGH 1974	3.0	1.0
1970 THROUGH 1971	4.0	1.0
1968 THROUGH 1969	5.0	1.0
PRE-1968	6.0	0.5
JENSEN HEALEY		
1973 AND 1974	4.5	1.0
JENSEN INTERCEPTOR AND CONVERTIBLE		
SEE CHRYSLER CORPORATION		
L.O.V., CHEVROLET		
1975	-	-
1974	1.5	1.0
PRE-1974	3.0	1.0
MAZDA		
1975	-	-
1968 THROUGH 1974,		
PISTON ENGINES	4.0	1.0
1974, ROTARY ENGINES	2.0	0.5
1971 THROUGH 1973,		
ROTARY ENGINES	3.0	0.5
MERCEDES BENZ		
1975	-	-
1973 THROUGH 1974	2.0	1.0
1972	4.0	1.0
1968 THROUGH 1971	5.0	1.0
PRE-1968	6.0	0.5

OREGON--6

OPEL		
1975	-	-
1973 THROUGH 1974	2.5	1.0
1970 THROUGH 1972	3.0	1.0
1968 THROUGH 1969	3.0	1.0
PRE-1968	6.0	0.5
PEUGEOT		
1975	-	-
1971 THROUGH 1974	3.0	1.0
1968 THROUGH 1970	4.0	1.0
PRE-1968	6.0	0.5
PORSCHE		
1975	-	-
1972 THROUGH 1974	3.0	1.0
1968 THROUGH 1971	5.0	1.0
PRE-1968	6.5	0.5
RENAULT		
1975	-	-
1971 THROUGH 1974	3.0	1.0
1968 THROUGH 1970	5.0	1.0
PRE-1968	6.0	0.5
ROLLS-ROYCE AND BENTLEY		
1975	-	-
1971 THROUGH 1974	3.0	1.0
1968 THROUGH 1970	4.0	1.0
PRE-1968	6.0	0.5
SAAB		
1975	2.5	0.5
1968 THROUGH 1974,		
EXCEPT 1972 99 1.85 L	3.0	1.0
1972 99 1.85 L	4.0	1.0
PRE-1968 (TWO-STROKE CYCLE)	3.0	3.5
SUBARU		
1975	-	-
1972 THROUGH 1974	3.0	1.0
1968 THROUGH 1971,		
EXCEPT 360'S	4.0	1.0
PRE-1968 AND ALL 360'S	6.0	0.5
TOYOTA		
1975	-	-
1968 THROUGH 1974, 6 CYL	3.0	1.0
1968 THROUGH 1974, 4 CYL	4.0	1.0
PRE-1968	6.0	0.5
VOLKSWAGEN		
1975 RABBIT, SCIROCCO,		
AND DASHER	0.5	0.5

OREGON--7

1975 ALL OTHERS	2.5	0.5
1974 DASHER	2.5	1.0
1972 THROUGH 1974, EXCEPT DASHER	3.0	1.0
1968 THROUGH 1971	3.5	1.0
PRE-1968	6.0	0.5
VOLVO		
1975	-	-
1972 THROUGH 1974	3.0	1.0
1968 THROUGH 1971	4.0	1.0
PRE-1968	6.5	0.5
NON-COMPLYING IMPORTED VEHICLES		
ALL	6.5	0.5
ALL VEHICLES NOT LISTED AND WHICH HAVE NO VALUES ENTERED		
1975 NON-CATALYST, 4 CYL	2.0	0.5
1975 NON-CATALYST, ALL EXCEPT 4 CYL	1.0	0.5
1975 CATALYST EQUIPPED	0.5	0.5
1972 THROUGH 1974	3.0	1.0
1970 THROUGH 1971	4.0	1.0
1968 THROUGH 1969	5.0	1.0
PRE-1968	6.5	0.5

2. HYDROCARBON IDLE EMISSION VALUES NOT TO BE EXCEEDED:

VEHICLE	BASE STANDARD HC, %	ENFORCEMENT TOLERANCE THROUGH JUNE 1976
PRE-1968, 4 CYLINDER AND NON- COMPLYING IMPORTS, 4 CYL ONLY	1600 PPM	250
PRE-1968, ALL NON-COMPLYING IMPORTS (EXCEPT 4 CYLINDER)	1300 PPM	250
1968 THROUGH 1969, 4 CYL	800 PPM	200
ALL OTHER 1968 THROUGH 1969	600 PPM	200
ALL 1970 THROUGH 1971	500 PPM	200
ALL 1972 THROUGH 1974, 4 CYL	400 PPM	200
ALL OTHER 1972 THROUGH 1974	300 PPM	200
1975 WITHOUT CATALYST	175 PPM	50
1975 WITH CATALYST	100 PPM	50

OREGON--8

THERE SHALL BE NO VISIBLE EMISSION DURING THE STEADY-STATE UN-
LOADED ENGINE IDLE PORTION OF THE EMISSION TEST FROM EITHER THE
VEHICLE'S EXHAUST SYSTEM OR THE ENGINE CRANKCASE.
29DEC75

B. DIESEL POWERED

VEHICLE	CO, %	TOLERANCE	HC, PPM
ALL TWO-STROKE CYCLE AND DIESEL IGNITION ENGINES	1.0	0.5	NONE

29DEC75

C. OTHER

5. MAINTENANCE

ALL ORIGINAL EMISSIONS CONTROL EQUIPMENT TO BE MAINTAINED IN
GOOD WORKING CONDITION (REPLACEMENT PARTS ACCEPTABLE); ADD-ON
EQUIPMENT NOT PERMITTED WHICH ADVERSELY AFFECTS EMISSIONS
(OREGON MAINTAINS LIST). ALL MANUFACTURER-RECOMMENDED MAIN-
TENANCE/REPAIR ACTIONS O.K.

EXCEPTION: VEHICLES MODIFIED FOR LPG, NATURAL GAS, ETC.
29DEC75

6. EXEMPTIONS

- A. UNCOMBINED WATER
 - B. VEHICLES OVER 8400 LB GVW
 - C. MOTORCYCLES
 - D. ELECTRIC VEHICLES
 - E. PRE-1942 VEHICLES
 - F. LICENSED SPECIAL INTEREST VEHICLES
- 29DEC75

7. VEHICLE NOISE

A. STATE REGULATIONS (ALL VALUES ARE DB(A)):

NEW MOTOR VEHICLES
(MOVING TEST AT 50 FEET)

VEHICLE TYPE	MODEL YEAR	MAX. NOISE LEVEL, DB(A)
MOTORCYCLES	1975	86
	1976	83
	1977-1978	80
	AFTER 1978	75
SNOWMOBILES AS DEFINED IN ORS 481.043	1975	82
	1976-1978	78
	AFTER 1978	75

OREGON--9

TRUCK AND BUS AS DE-	1975	86
FINED UNDER ORS 481.	1976-1978	83
030 AND 481.035	AFTER 1978	80

AUTOMOBILES, LIGHT	1975	83
TRUCKS AND ALL OTHER	1976-1978	80
ROAD VEHICLES	AFTER 1978	75

ROAD VEHICLES
(STATIONARY TEST AT 25 FEET OR GREATER)

VEHICLE TYPE	MODEL YEAR	MAX. NOISE LEVEL, DB(A)
TRUCK AND BUS AS DE-	BEFORE 1976	94
FINED UNDER ORS 481.	1976-1978	91
030 AND 481.035	AFTER 1978	88
MOTORCYCLES	BEFORE 1976	94
	1976	91
	1977-1978	88
	AFTER 1978	83
AUTOMOBILES, LIGHT	BEFORE 1976	92
TRUCKS AND ALL OTHER	1976-1978	88
ROAD VEHICLES	AFTER 1978	83

(MOVING TEST AT 50 FEET OR GREATER AT VEHICLE SPEED)

VEHICLE TYPE	MODEL YEAR	MAX. NOISE LEVEL, DB(A)	
		35 MPH OR LESS	GREATER THAN 35 MPH
TRUCK AND BUS AS DEFINED	BEFORE 1976	86	90
UNDER ORS 481.030 AND	1976-1978	85	87
481.035	AFTER 1978	82	84
MOTORCYCLES	BEFORE 1976	84	88
	1976	81	85
	1977-1978	78	82
	AFTER 1978	73	77
AUTOMOBILES, LIGHT	BEFORE 1976	81	85
TRUCKS AND ALL OTHER	1976-1978	78	82
ROAD VEHICLES	AFTER 1978	73	77

OFF-ROAD RECREATIONAL VEHICLES

MODEL YEAR	MAXIMUM NOISE LEVEL, DB(A)	
	STATIONARY TEST (25 FEET OR GREATER)	MOVING TEST (50 FEET OR GREATER)
BEFORE 1976	94	88
1976	91	85
1977-1978	88	82
AFTER 1978	83	77

OREGON--10

OPERATION OF VEHICLE ON PRIVATE PROPERTY
ALLOWABLE NOISE LIMITS
(25 FEET FROM NOISE SENSITIVE PROPERTY)

TIME	MAX. NOISE LEVEL, DB(A)
7 A.M. - 10 P.M.	60
10 P.M. - 7 A.M.	55

ROAD VEHICLE AUXILIARY EQUIPMENT
(STATIONARY TEST AT 50 FEET OR GREATER)

MODEL YEAR	MAXIMUM NOISE LEVEL, DB(A)
BEFORE 1976	68
1976-1978	65
AFTER 1978	62

B. ALL VEHICLES MUFFLER EQUIPPED; NO EXHAUST LEAKS; NO PINCHED
OUTLET PIPES

C. PENALTY: MISDEMEANOR (ANY VIOLATION EXCEEDING ABOVE STANDARDS)

D. EXEMPTIONS: PRE-1976 NEW VEHICLES; RACING EVENTS; OFF-ROAD NON-
RECREATIONAL VEHICLES; OFF-ROAD RECREATIONAL VEHICLES OPERATING ON
PUBLIC ROADS; EMERGENCY VEHICLES; TRAINS; FIRE NOISE; SIRENS
(5-MINUTE MAXIMUM); CONSTRUCTION; PUBLIC UTILITY REPAIRS; PUBLIC
ENTERTAINMENT EVENTS; AIRCRAFT OPERATIONS; LAWN CARE AND SNOW
REMOVAL; BELLS; INFREQUENT AUXILIARY EQUIPMENT (WRITTEN
AUTHORIZATION REQUIRED)

E. OREGON WILDERNESS AREAS: ANY NOISE OVER 50 DB(A) AT 50 FEET
(SPECIAL PERMIT FOR UP TO 75 DB(A)
29DEC75

8. REMARKS

THESE REGULATIONS APPLY BASICALLY TO THE METROPOLITAN AREA OF
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